Base Station Antennas for Sustainable Outdoor Wireless Networks

A Product Selection Guide for Europe, Middle East & Africa

June 2023

COMMSCOPE®

Mobile network operators (MNOs) are working hard to reduce their environmental impact.

CommScope's Outdoor Wireless Network (OWN) segment is working just as hard to help them do it.

The outdoor wireless industry has reached a tipping point—two, actually. One will determine if 2.9 billion people, more than a third of the world, will have access to high-speed broadband with all its economic and social benefits. The other will influence the course of climate change and the degree to which it disrupts how and where we live.

In short, OWNs must continue to expand and evolve, especially in rural and underserved regions—but not at the expense of the home we all share. The decisions network operators make today will go a long way toward determining our quality of life tomorrow. The stakes are high, and CommScope is ready.

At CommScope's OWN segment, we've spent 40+ years preparing for this moment, developing the strategies and solutions to enable sustainable network growth.

8T8R base station antennas

The right-size alternative that balances RAN performance and energy efficiency

Many (if not most) new sites use 32T32R or 64T64R radios and MIMO active antennas. But this configuration is necessary only for the highest capacity sites. An estimated 70 to 80 percent of new sites are overprovisioned, requiring more power and operational costs than are necessary.

Studies show that, by deploying CommScope 8T8R passive antennas and 8T8R radios, operators can cut power consumption and CO2 emissions in half versus a 64T64R active antenna/radio system—and still meet coverage and capacity demands. This represents an annual per-site energy savings of 4000–5000 kWh and 1300–1600 kg of CO_2.

CommScope offers a comprehensive portfolio of more than **80 varieties of 8T8R BSAs** that provide a flexible, super-efficient alternative to 32T32R and 64T64R architectures in medium- and low-density areas.

Very High Traffic	64T64R	32T32R	32T32R 16T16R(*)	(FWA) 32T32R 16T16R(*)
Moderate/Low Traffic	N/S (unlikely)	8T8R	8T8R	8T8R
				
	Dense Urban High-Rise ISD 200-500m	Urban Low-Rise ISD 500-1,000m	Suburban ISD>1km	Rural ISD ~5km
	Complemented with Dynamic Spectrum Sharing (DSS) in some scenarios In very low traffic sites 3.5 GHz probably not deployed and FDD bands may be enough			

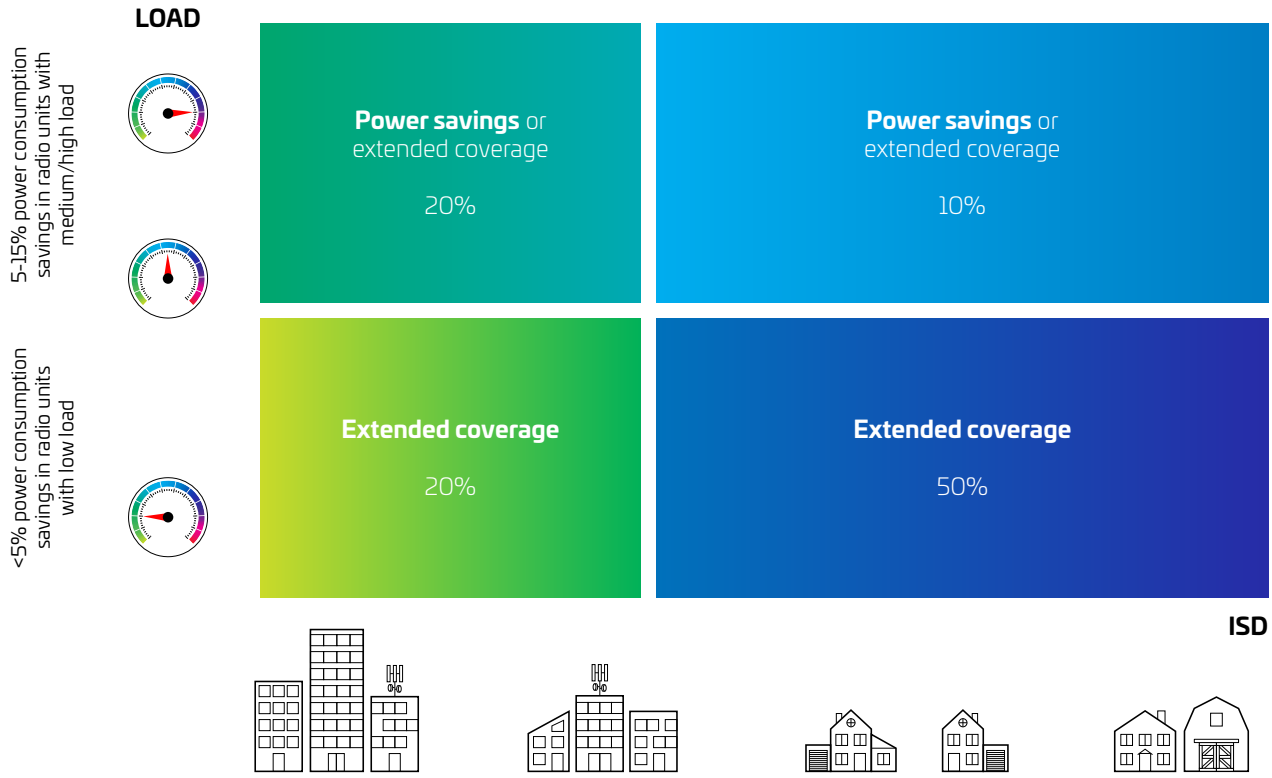
8T8R BSAs are suitable in 70% to 80% of all deployments

More energy-efficient antennas: balancing power savings and coverage

Even without downsizing, and at equivalent configuration and capacity, it is possible to realize significantly better energy efficiency while boosting network performance. Our new-generation energy-efficient antennas feature improved antenna radiation and pattern efficiencies that can enable lower RAN power consumption and reduce CO_2 emissions.

These designs can reduce power consumption by **16 percent, preventing 420 kg of carbon release** per antenna at –1.25 dB.

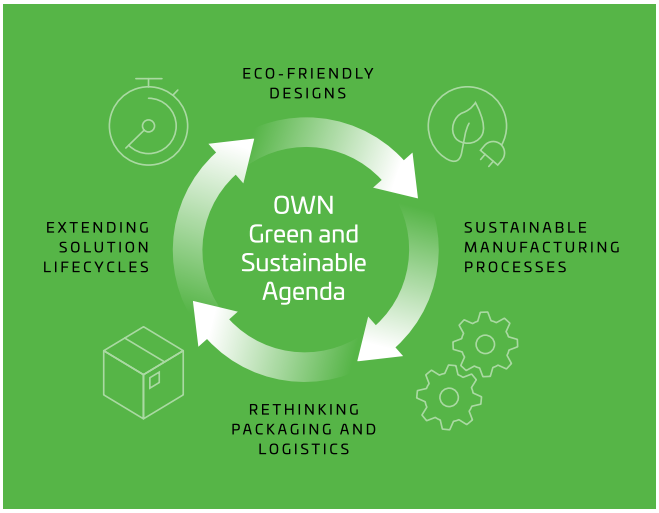
CommScope's **energy-efficient antennas** help reduce RAN power consumption. Savings that can be achieved depend on the configuration of the site, the expected traffic load, and the generation of the product being replaced.



Four pillars, many partners, one planet

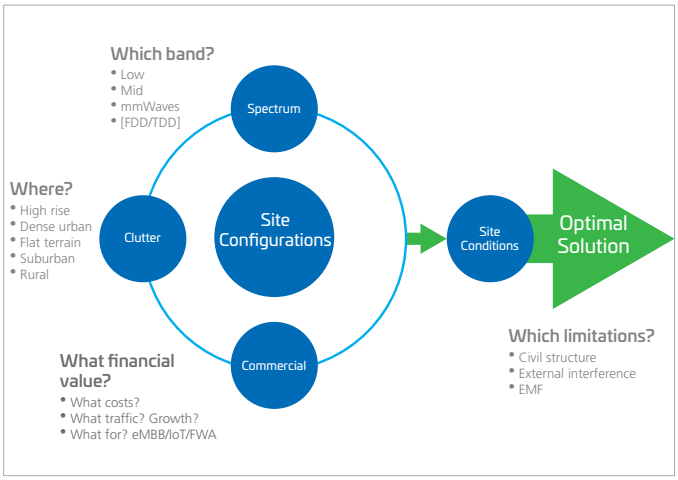
There is no single solution to climate change or digital inequality, and no single company can solve these problems alone. That's why CommScope OWN assists our MNO partners and supply chain partners in reducing their environmental impact at every stage. We have formalized our commitment to sustainability and a circular economy into our Green and Sustainable Agenda. It is based on four pillars that together cover the entire planning, production and lifecycle of our products.

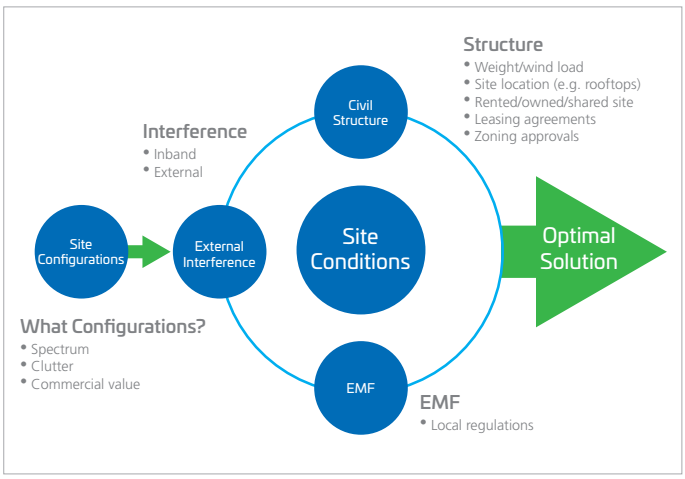
CommScope has made a science of helping our partners achieve their energy efficiency goals. You can learn more in our Journey to Net Zero white paper.



The 5G challenge

5G RAN upgrade paths will need a diverse set of approaches, as there is no "one-size-fits-all" solution that accommodates the numerous factors to consider.





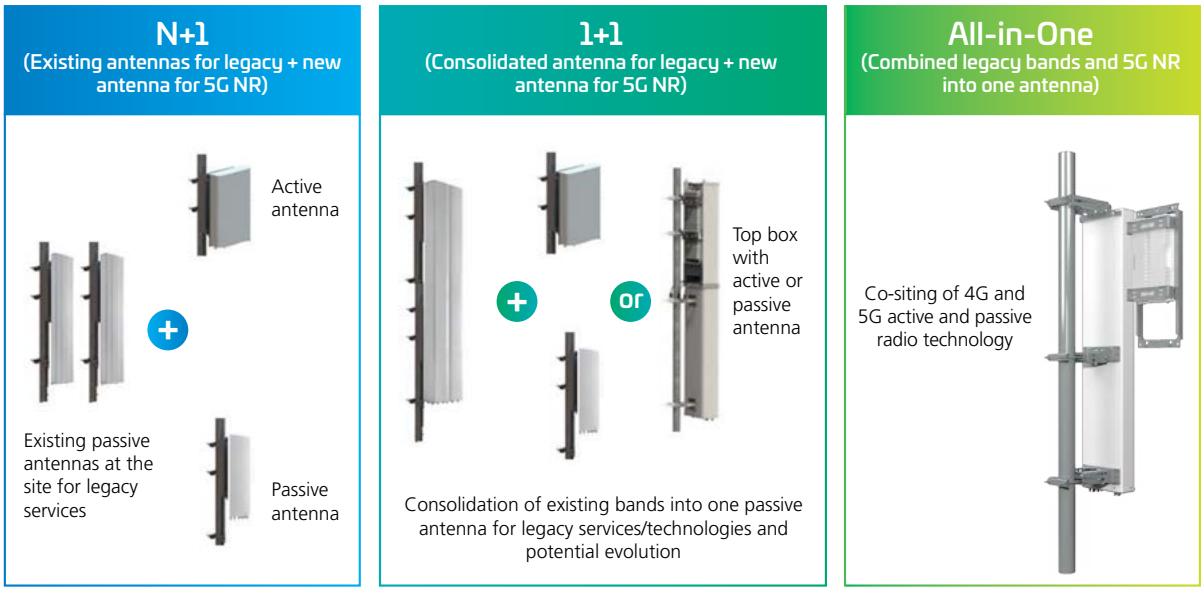
Site configuration factors

- **Spectrum and capacity needs:** Do you need mMIMO to build capacity, or a mix of active and passive antenna? Does an all-passive solution (4T4R, 8T8R beamforming, multibeam, hybrid FDD/TDD) make more sense? Learn more.
- **Terrain and environment:** Where the antennas are deployed matters. Dense, urban high-rise? Flat, open rural terrain? Suburban in-fill? Each environment dictates a different set of antenna performance and cost requirements.
- **Business use case:** The commercial value of an individual location depends on multiple variables. What are the costs involved? What level of traffic is expected? What is the growth potential? What applications are you planning: enhanced mobile broadband, IoT, fixed wireless?

Site condition factors

Site conditions may require a careful look at the type of approach taken in your 5G upgrade plans.

- **Structural capacity:** If the structure cannot bear more weight or wind loading, consolidated antenna designs could be the best solution. These designs can help you avoid rises in rental fees and deployment delays that can occur from local zoning restrictions.
- **External interference:** Depending on the site layout and location, external interference may drain the overall capacity or require special consideration regarding power emissions.
- **Electromagnetic field generation:** As use of higher-power RRUs increases, local EMF regulations become more of an issue. For example, high-end beamforming gain may require a site to be turned down or require building owners to seek special permission to access the roof.



Three strategic approaches for supporting 5G NR with active and passive antennas

Smarter solutions for all your applications

With one of the industry's largest antenna portfolios, CommScope helps mobile operators, tower companies and OEMs solve their most difficult macro cell and small cell challenges.

Macro site solutions

CommScope's macro site antenna portfolio features multibeam, beamforming, multiport, omni and sectorized solutions in an array of sizes and configurations. With a range of application-specific antennas, you have one trusted source for all your macro base station antennas. Learn more.

Mosaic™ Grow without the pain

CommScope's new and uniquely agile Mosaic™ antenna platform enables operators to add 5G capabilities to existing 4G sites without impacting performance, antenna count/size or equipment footprint. Combining active and passive technologies in a compact, modular solution, Mosaic simplifies network design, increases network planning flexibility, and reduces your total cost of ownership. Learn more.

Outdoor small cell solutions

Quickly customizable with expanded coverage and faster deployment, CommScope small cell antennas deliver everything operators need to solve their toughest densification and 5G challenges. From multiport to multiband, our small cell antennas provide a variety of power and capacity combinations while retaining their easily concealed size. Electrical downtilt and upper sidelobe suppression improve beam management for reduced interference and optimized capacity across licensed bands. Learn more.

Integrated Metro Cell solutions

CommScope's Metro Cell solutions are fully integrated and concealed small cell assemblies featuring our high-performance small cell antennas, connectivity and radios from nearly any OEM. Now available with C-band support, Metro Cells can be deployed as monopoles, integrated lumieres, strand-mounted solutions and more. Each can be customized—with port counts/types, pole and concealment options, multiband frequencies, and pattern/tilt options—for a best-fit, site-specific solution. Learn more.

Let's get started

These are just some of the reasons to partner with CommScope for your base station antennas. On the following pages you'll find hundreds more. To get started putting our insight and experience to work for you, contact your CommScope representative.

Active and passive antennas can be integrated or disaggregated. From a sustainability point of view, the disaggregated option—where active and passive antennas are distinct units that can operate independently—extends the lifespan of passive antennas in the eventuality of the active antenna replacement or of a RAN vendor swap. In that sense, the choice of disaggregation made by CommScope with its Mosaic antenna platform is a more sustainable one.

Antenna Color Coding

According to AISG standards, color coding is used to identify antenna RF ports and their associated AISG control ports. Color definitions are associated with the RAL codes used for RF frequency ranges.

Frequency Range	Assigned Colour Code	Abbreviation
380 – 1000 MHz	RAL 3020	R
1001 – 1700 MHz	RAL 6029	G
1701 – 2300 MHz	RAL 5015	B
2301 – 3000 MHz	RAL 1023	Y
3001 – 5000 MHz	RAL 4006	P
5001 – 6000 MHz	RAL 2009	O

CommScope Antenna Array Symbols employ "AISG Color Coding" to provide guidance in identifying desired RF frequency band, or combination of frequency bands, supported by a certain Antenna Model. Additionally, the Antenna Array Symbols illustrate the number of arrays for each frequency band and the array positions inside the Antenna. The number of arrays for a frequency band is indicated by the numerical digit that follows the abbreviated letter in the Antenna Array Symbol.

Antenna Array Symbols

Configuration Type 1

Bottom

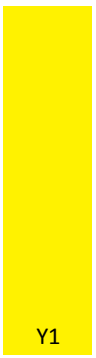
DB654DG65A-C
LDX-3319DS-VTM
LDX-3319DS-A1M
LDX-6513DS-VTM
LDX-6513DS-A1M
LDX-6515DS-VTM
LDX-6516DS-VTM
LDX-9013DS-VTM
LDX-9014DS-VTM
LNX-6513DS-A1M
LNX-6514DS-A1M
LNX-6515DS-A1M
LNX-8514DS-A1M
LRX-8512DS-VTM
RPX310B-T2H
R-33D-R1VB
R-65B-R1VB
R-65C-R1VB
R-65C-R1VB-V4
O2P-2L-B1

Configuration Type 2

Bottom

HBX-3319DS-VTM
HBX-6513DS-VTM
HBX-6516DS-VTM
HBX-9016DS-VTM

Configuration Type 3



Bottom

3X-V65A-3XR
V-33A-R1VB
V-65A-R1VB

Configuration Type 4

Left Right
Bottom

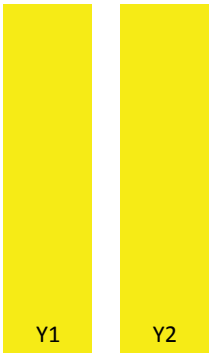
RR-65B-R2
RR-65D-R2N43
RR-85D-R2N43
RR-65A-R2VB
RR-65B-R2VB
RR-65C-R2VB-V2

Configuration Type 5

Left Right
Bottom

HBXX-3319DS-VTM
HBXX-6516DS-VTM
HBXX-6517DS-VTM
HBXX-9014DS-VTM

Configuration Type 6



Left Right
Bottom

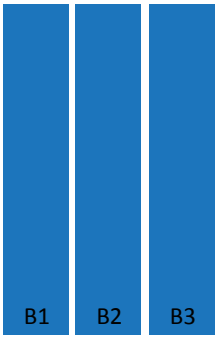
HWXX-6516DS1-VTM
HWXX-6516DS1-A2M
HWXX-6516DS1-VTMV2
VV-33A-R2VB
VV-65A-R1B
VV-65A-R2
VV-65A-R2-V2
VV-65A-R2VB-V2
\VV-65B-R2

Configuration Type 7

Left Right
Bottom

SSPX310R-V2

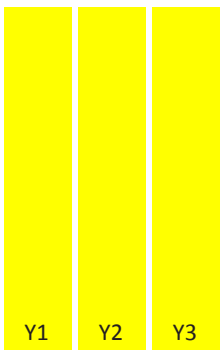
Configuration Type 8



Left Right
Bottom

HBXXX-6516DS-VTM
HBXXX-6516DS-A3M

Configuration Type 9



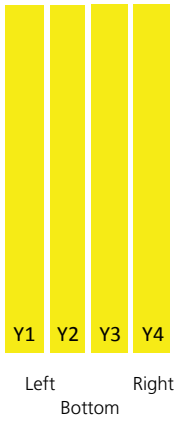
Left Right
Bottom

HWXXX-6516DS-VTM
HWXXX-6516DS-A3M
V3-65A-R3

A-Z array types illustrate configurations for antennas with silm designs and/or antennas that support FDD + TDD or TDD. Numerical array types illustrate configurations for all other sector antenna models.

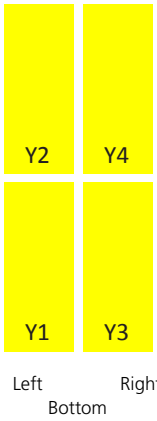
Antenna Array Symbols

Configuration Type 10



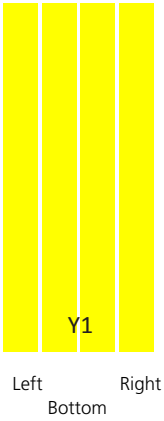
ZZVV-65A-R4N43

Configuration Type 11



V4-65D-R4-V2

Configuration Type 12



T4-90A-R1-V2
T4-90A-R1-V5
T4-90A-R1-V6

Configuration Type 13

S4-90M-R1-V2
S4-90M-R1-V3
S4-90M-R1-V4
U4-90S-R1-J

Configuration Type 14

HHTTV-65A-R3

Configuration Type 15

DBXLH-6565B-VTM
DBXLH-6565B-A2M
DBXLH-6565C-VTM
DBXNH-6565B-VTM
DBXNH-6565B-A2M

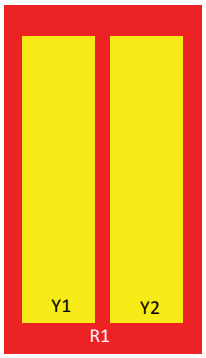
Configuration Type 16

CV65CSX-M
RV-65A-R2

Configuration Type 17

TBXLHA-6565C-A3M

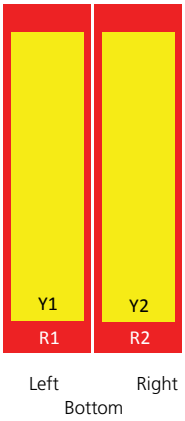
Configuration Type 18



CVV65BSX-M
CVV65CSX-M
CVVPX303F1
RVV-33B-R3
RVV-45A-R3
RVV-65A-R3
RVV65B-C3-3XR
RVV65D-C3-3XR
RVV-65D-R3
RVVPX303.6F12R2
RVVPX306.11R-V2
RVVPX308.11R-V3
RVVPX310.11B-T2
RVVPX310.11R-V3
RZV-65B-R3
RZZ-65B-R3
RZZ-65D-R3
RVV-65B-R3VB
RVV-65D-R3VB
RVV-65M-R3VB
RVV-65S-FVB
RVV-65D-R3VB-V2

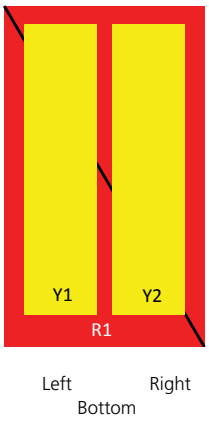
Antenna Array Symbols

Configuration Type 19



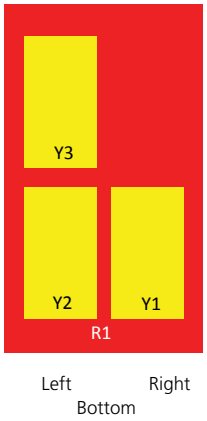
RRVV-65B-R4-V2
RRVV-65D-R4
RRVV-65D-R4-V2
RRZZ-65A-R4
RRZZ-65B-R4
RRVV-85D-R4N43
RRVV-65D-R4VB
RRVV-65B-R4-V4
RRVV-65A-R4VB
RRVV-65B-R4VB-V2

Configuration Type 20



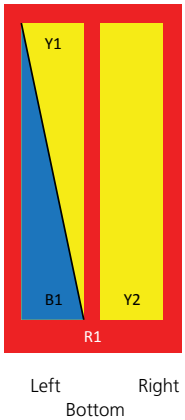
EGVV65A-FL-C3-4XR
EGVV65B-FL-C3-4XR
EGVV65D-FL-C3-4XR

Configuration Type 21



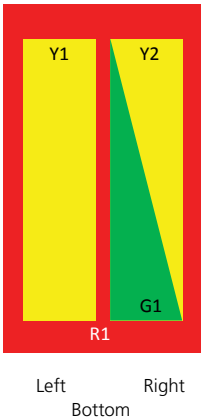
RV365D-M-V2
RV3-65D-R4-V2
RV3-65D-R4-V3

Configuration Type 22



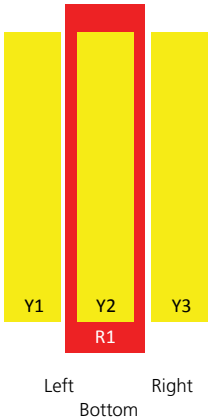
RHTV65A-FH-C3-4XR

Configuration Type 23



RYVV-65B-R4

Configuration Type 24

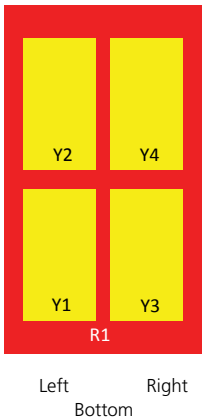


RZVV-65A-R4
RZVV-65B-R4
RZVV-65A-R4-V3
RZVV-65A-R4-V4

Configuration Type 25

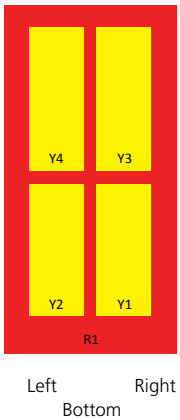
RHHTT-65A-R4-V2

Configuration Type 26



KZZVV-65D-R5
RV4-65B-R5-V2
RV4-65B-R5-V3
RV4-65D-M-V2
RV4-65D-R5-V6
RV4-65B-R5VB

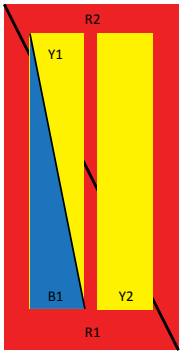
Configuration Type 27



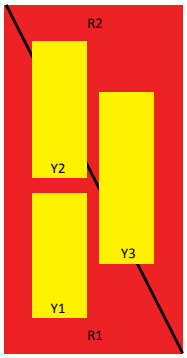
RV4PX306R

Antenna Array Symbols

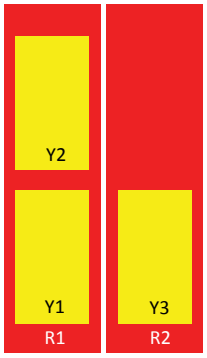
Configuration Type 28



Configuration Type 29

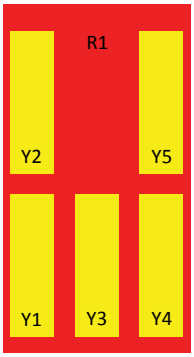


Configuration Type 30



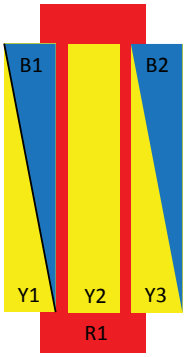
RRV3-65D-R5

Configuration Type 31



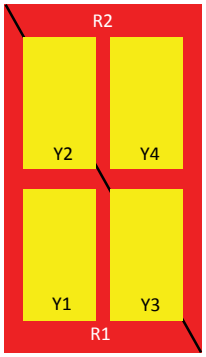
RZV4-65D-R6
RZV4-65D-R6-V2

Configuration Type 32



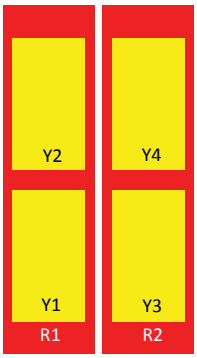
RVHHTT-65A-R5

Configuration Type 33



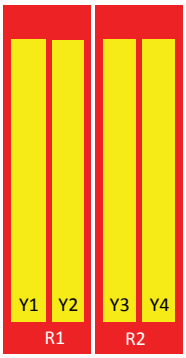
EGV4-65D-R6

Configuration Type 34



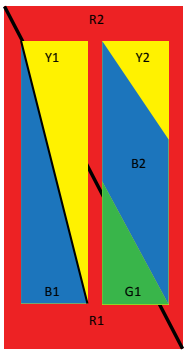
RRV4-65B-R6-PS
RRV4-65D-R6-V3
RRV4-65B-R6
RRV4-65C-R6
RRV4-65D-R6
RRV4-65D-R6VB

Configuration Type 35



RRV4-65A-R6
RRV4-65A-R6N43
RRV4-65A-R6-V2
RRV4-65B-R6H4
RRV4-65B-R6N43
RRV4-6585B-R6H4
RRV4-85B-R6
RRZZVV-65A-R6H4
RRZZVV-65A-R6N43
RRZZVV-65AR6NV1
RRZZVV-65B-R6H4
RRZZVV-65B-R6N43
RRZZVV-65BR6NV1
RRZZVV-65B-R6NV3
RRZZVV-65D-R6N43
RRV4-65B-R6H4VB

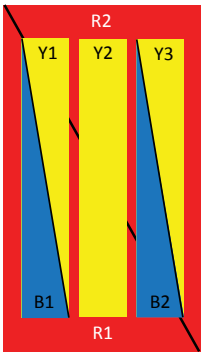
Configuration Type 36



EGYHHTT-65A-R6
EGYHHTT-65B-R6

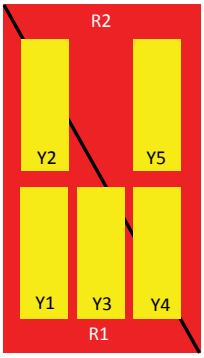
Antenna Array Symbols

Configuration Type 37

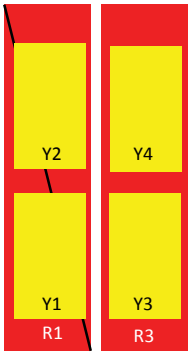


EGZHHTT-65A-R6
EGZHHTT-65B-R6

Configuration Type 38

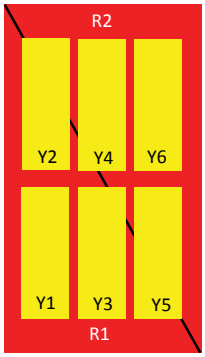


Configuration Type 39



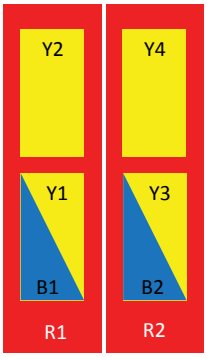
EGRV4-65D-R6

Configuration Type 40

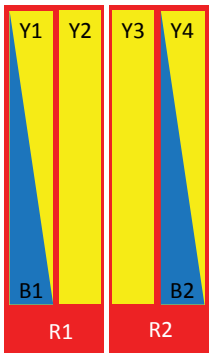


EGZV5-65D-R6-V2

Configuration Type 41

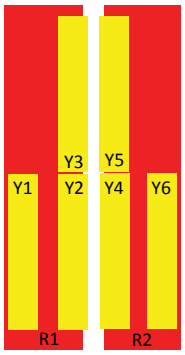


Configuration Type 42



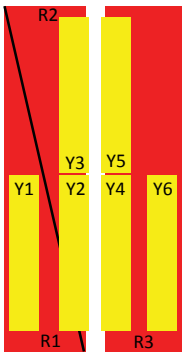
RRZZHHTT-65A-R6H4
RRZZHHTT-65B-R6H4
RRZZHHTT-65D-R6

Configuration Type 43



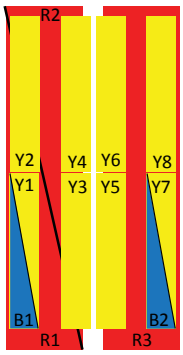
RRZZV4-65B-R8H4
RRZZV4-65D-R6H4
RRZZV4-65D-R8H4

Configuration Type 44



EGRZZV4-65D-R8V2

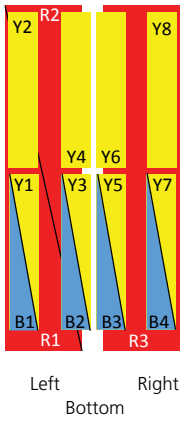
Configuration Type 45



EGRZZHHTTV4-65D-R8

Antenna Array Symbols

Configuration Type 46



EGRZZH4T4VV-65D-R8
EGRZZH4T4VV65DR8V2
EGRZZH4T4VV65DR10

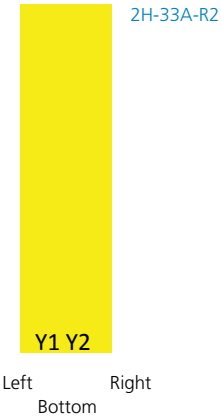
Configuration Type 47

2UPX210B-T2
2CPX208R-V3

Configuration Type 48

HBXX-3817TB1-VTM
HBXX-3817TB1-A2M

Configuration Type 49

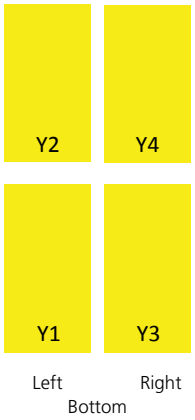


2H-33A-R2

Configuration Type 50

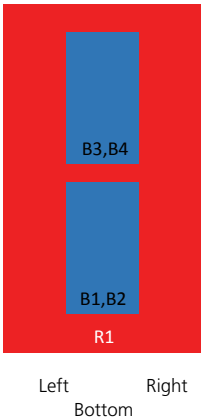
2HH-38A-R4-V2

Configuration Type 51



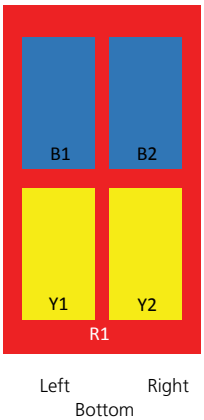
2VV-33C-R4
2VV-33C-R4-V4
2VV-33C-R4-V6

Configuration Type 52



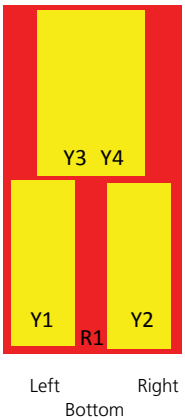
R2HH-6533A-R5
R2HH-6533D-R5

Configuration Type 53



CVV2NPX308.208R
RVV2NPX310.211R

Configuration Type 54



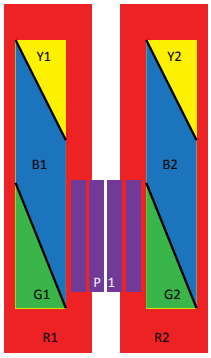
RVV2H-6533B-R5
RVV2H-6533D-R5

Configuration Type 55

RR2HH-6533D-R6
RR2VV-6533D-R6

Antenna Array Symbols

Configuration Type 56



Left Right
Bottom

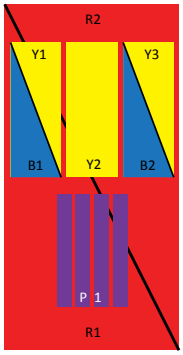
RRYYHHTTS4-65A-R7

Configuration Type 57

Left Right
Bottom

EGR-65D-R3N43

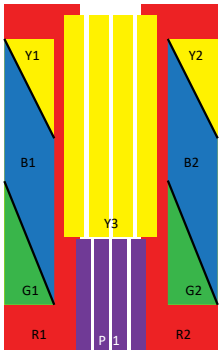
Configuration Type 58



Left Right
Bottom

EGZHHTTS4-65B-R7V2

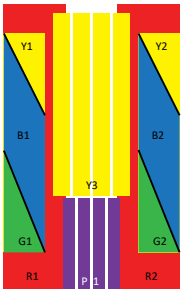
Configuration Type 59



Left Right
Bottom

RRYYHHTTT4S4-65BR8

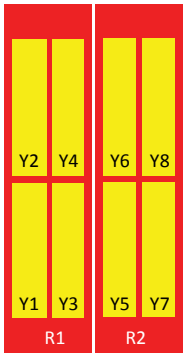
Configuration Type 60



Left Right
Bottom

EGZHHTTS4-65B-R7

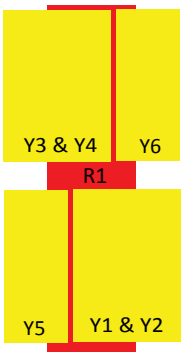
Configuration Type 61



Left Right
Bottom

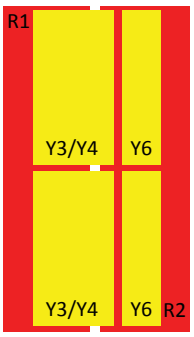
RRZZV6-65D-R10
RRZZV6-65B-R10H4
RRZZV6-65D-R10F

Configuration Type 62



Left Right
Bottom

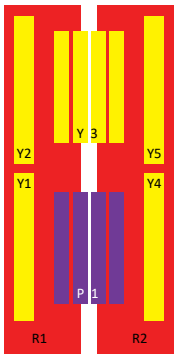
Configuration Type 63



Left Right
Bottom

RRVV2HH-6533B-R6

Configuration Type 64

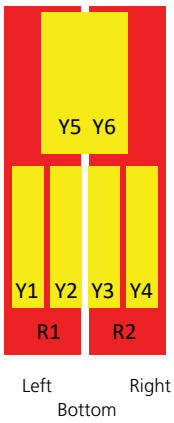


Left Right
Bottom

RRZZVVT4S4-65D-R8
RRZZVVT4S4-65B-R8

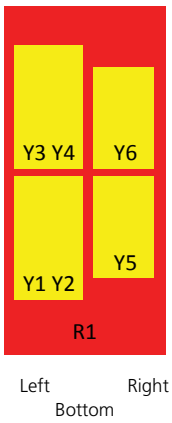
Antenna Array Symbols

Configuration Type 65



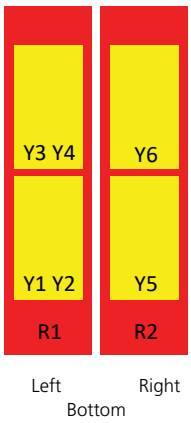
RRV42H-6533D-R8

Configuration Type 67



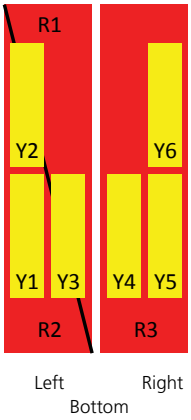
RVV2VV-6533D-R7

Configuration Type 68



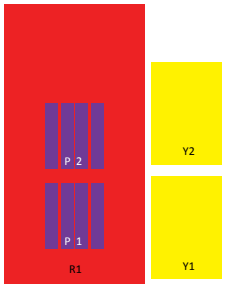
RRZZ2VV-6533B-R8

Configuration Type 69



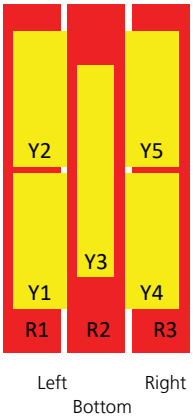
FGKZZV4-65D-R9

Configuration Type 70



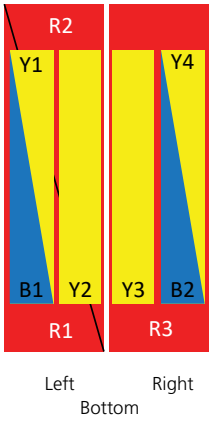
RVVSS-50M-F

Configuration Type 71



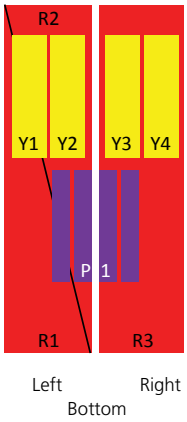
R3ZV4-65B-R8
RRCZV4-65B-R8

Configuration Type 72



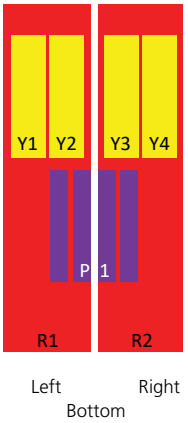
EGRZZHHTT-65BR8N43
EGRZZHHTT-65A-R8

Configuration Type 73



EGRV4Q4-65D-R8

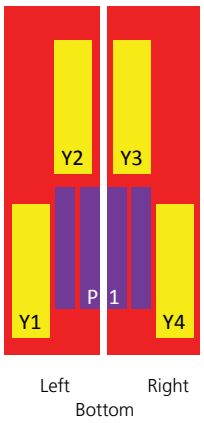
Configuration Type 74



RRV4Q4-65D-R7
RRV4Q4-65D-R7V2
RRV4Q4-65D-R7V4
RRZZVVQ4-65B-R7

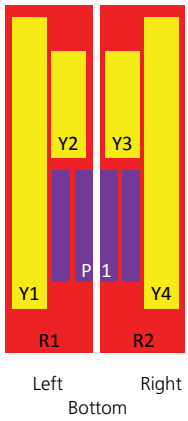
Antenna Array Symbols

Configuration Type 75



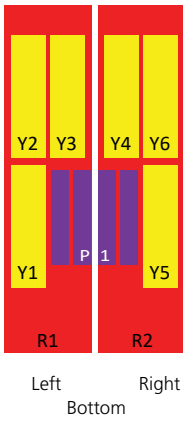
RRZZVVS4-65D-R7N43
RRZZVVS4-65DR7NV4

Configuration Type 76



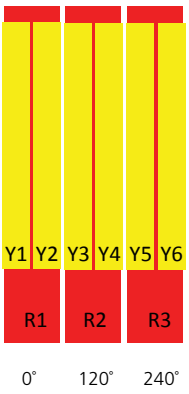
RRZZVVS4-65BR7NV4
RRZZVVS4-65B-R7N43

Configuration Type 77



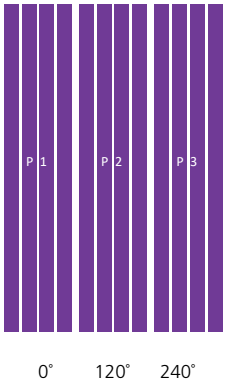
RRZZV4S4-65D-R9N43
RRZZV4S4-65DR9NV4

Configuration Type 78



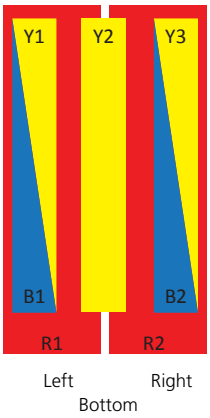
3X-RVV-65A-R9

Configuration Type 79



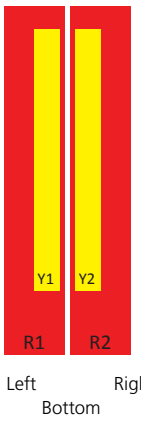
3X-S4-90M-R3
S4-90M-R1B-3XKIT

Configuration Type 80



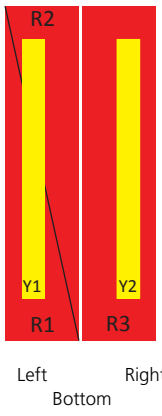
RRZHHTT-65A-R6N39

Configuration Type 81



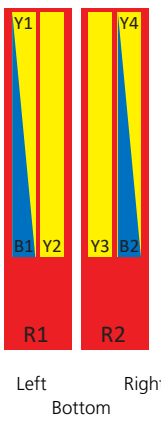
RRZZ-33D-R4
RRZZ-65B-R4N43
RRZZ-65B-R4N43V1
RRZZ-65D-R4N43
RRZZ-65A-R4N39
RRZZ-65B-R4N39
RRZZ-65D-R4N43V1
RRZZ-65D-R4N43V2

Configuration Type 82



EGRZV-65D-R5N43

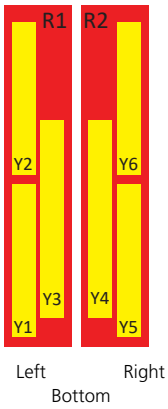
Configuration Type 84



RRZZHHTT-65A-R7N43
RRZZHHTT-65B-R7N43
RRZZHHTT-65BR7N43F
RRZZHHTT-65AR7N43F

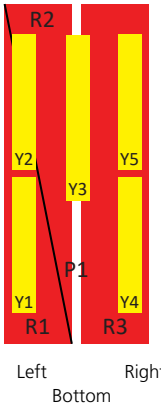
Antenna Array Symbols

Configuration Type 85



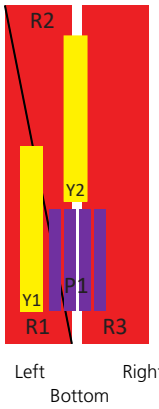
RRZZV4-65D-R8N43
RRZZV4-65D-R8NV1

Configuration Type 86



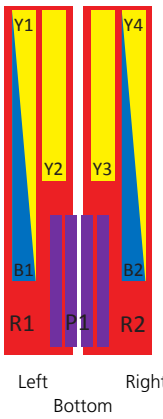
EGRZV4-65D-R8N43

Configuration Type 87



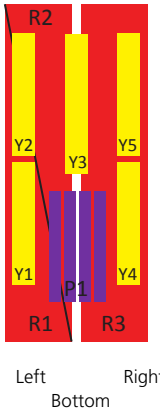
EGRZVS4-65D-R6N43

Configuration Type 88



RRZZHHTTS4-65B-R8N

Configuration Type 89



EGRZV4S4-65D-R9N43

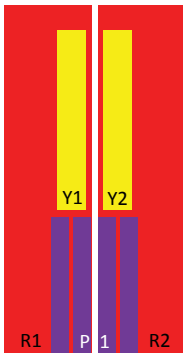
Configuration Type 91

RVVT4-65D-R4

Configuration Type 92

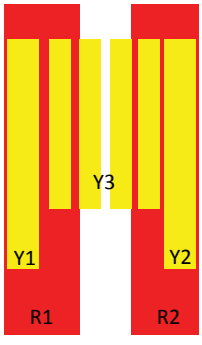
T4S4-90A-R2
T4S4-90A-R2-V4
T4S4-90A-R2-V3

Configuration Type 93



RRZZS4-65D-R5

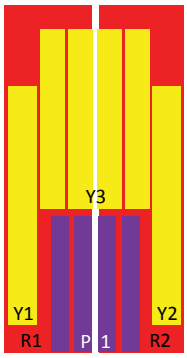
Configuration Type 94



RRZZT4-65A-R5
RRZZT4-65A-R5-V2

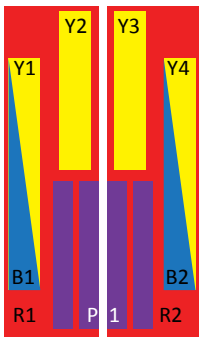
Antenna Array Symbols

Configuration Type 95



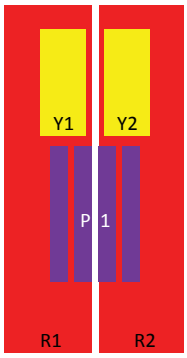
RRZZT4S4-65B-R6
RRVVT4S4-65D-R6
RRZZT4S4-65B-R6V4

Configuration Type 96



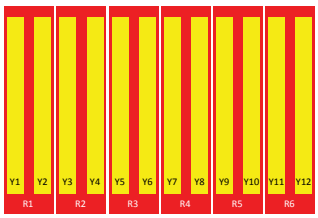
RRZZHHTTS4-65B-R7

Configuration Type 97



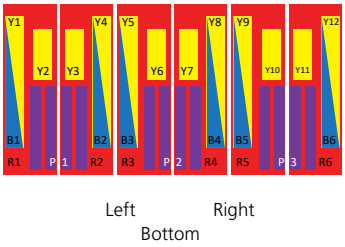
RRVVQ4-65D-R5
RRVVQ4-65D-R5V4

Configuration Type 98



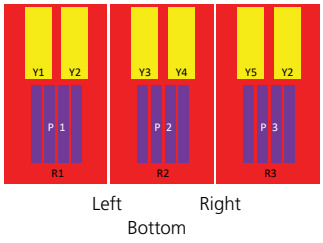
3X-RRV4-65B-R12

Configuration Type 99



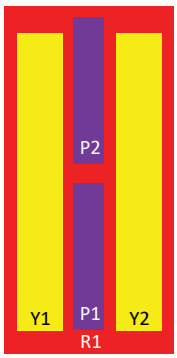
3X-RRZZHHTTS4-BR24

Configuration Type 100



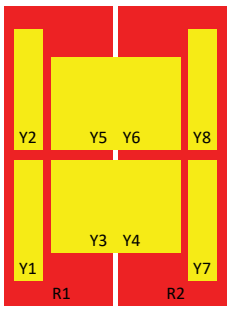
3X-RVVS4-65B-R12

Configuration Type 102



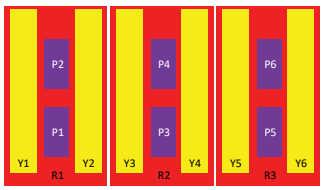
KVVSS-65A-R3

Configuration Type 103



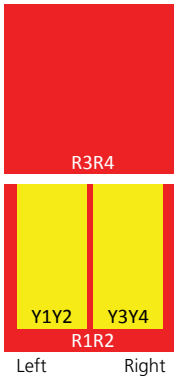
RRV42VV-6533D-R10

Configuration Type 104



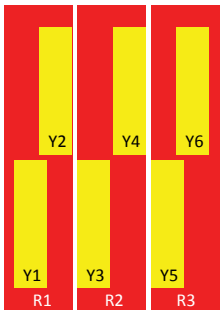
3X-KZZSS-65A-R9
3X-KVVSS-65A-R9

Configuration Type 105



2RR2VV-33C-R4

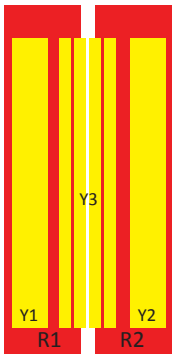
Configuration Type 106



R3V6-65B-R9
R3ZZV4-65B-R9

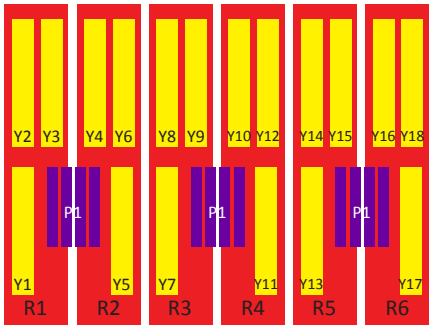
Antenna Array Symbols

Configuration Type 107



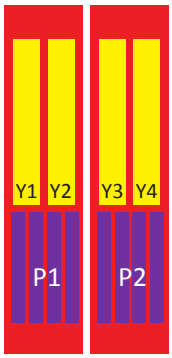
RRZZV4-6590B-R5
RRZZV4-6590D-R5

Configuration Type 108



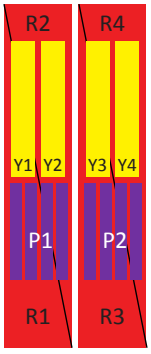
3X-RRZZV4S4-65DR27

Configuration Type 109



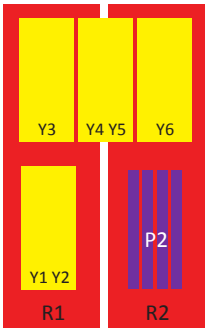
RRZZVVQ4Q4-65DR8V4
RRZZVVQ4Q4-65DR8

Configuration Type 110



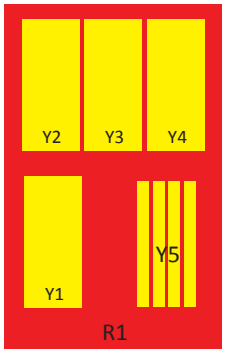
EEGGV4Q4Q465DR10

Configuration Type 111



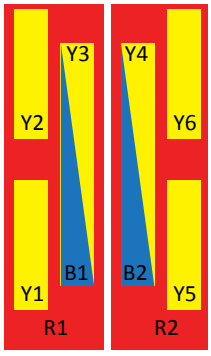
RRVV2VVQ4-6533D-R9

Configuration Type 112



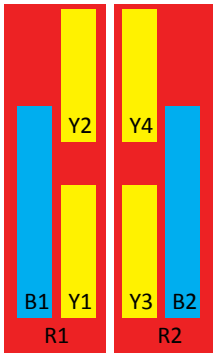
RV4T4-65D-R6VB

Configuration Type 113



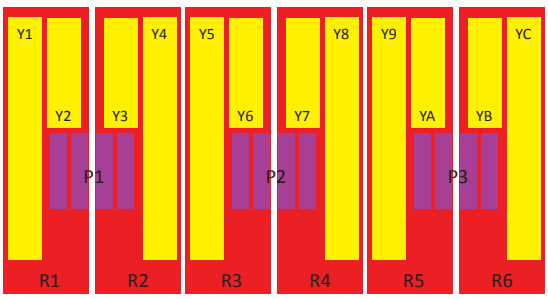
RRZZHHTTVV65CR10V3

Configuration Type 114



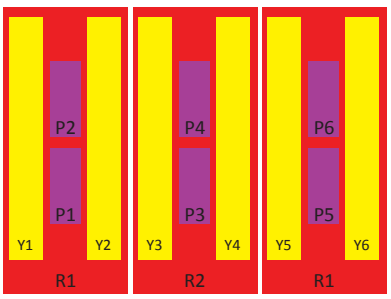
RRZZVV-65D-R8N43D

Configuration Type 115



3X-KKV4S4-65B-R15

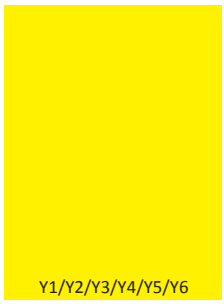
Configuration Type 116



KVVSS-65A-3XKIT

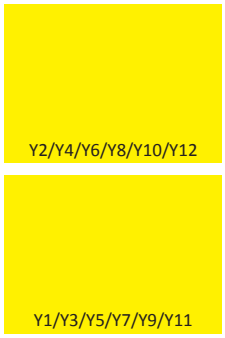
Antenna Array Symbols

Configuration Type 117



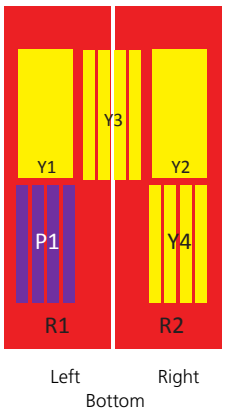
4V-15A-R4
6V-10M-F6

Configuration Type 118



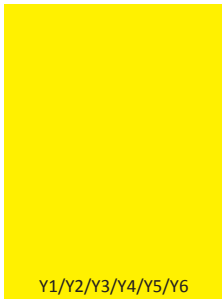
6VV-10A-F6

Configuration Type 119



RRZZV4T4S4-6590DR7

Configuration Type 120



4V-15A-R4

Antenna Coding

Multibeam
If multisector use #X (e.g. 3X) and thus X will never be used for a frequency

V4 and S4
This means: VVVV and SSSS and each letter means 2 ports.

Length (m/ft)

A	1.2/4
B	1.8/6
C	2.4/8
D	2.6/8.5
T	0.3/1
S	0.6/2
M	0.9/3

Variables
This section denotes variables as needed (up to 3 characters) V#

N means 4.3-10 connectors

43 means 430 mm patform
(39=> 395mm platform

Connector Type
Different connector locations
Multi or Single RET
Internal GPS
Variation on number of AISG ports

Frequency (MHz)

A	806/824-896
B	410-512
C	790-960/824-960
D	817-869
E	694-862
F	617-806
G	880-960
H	1695-2180/2360
J	698-787/798/803
K	617-960
L	1710-1880
N	698-896
P	4900-6000
R	694-960
Q	2300-3800
S	3300-3800
T	2490-2690
V	1695-2690
W	2300-2400
Y	1427-1518
Z	1427-2690

X = denotes bands combined into 2 ports

1 = denotes band is not cross-pol, only 1 physical port

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News

In this ordering guide you will find new products released and product discontinuations.

New products

- RRZZV4-6590D-R5*:16-port sector antenna, 4x 694-960, 4x 1427-2690 MHz, 65° HPBW and 8x 1695-2690 MHz, 90° HPBW, 5x RET
- RRZZV4T4S4-6590DR7*: 32-port sector antenna, 4x 694-960 and 4x 1427-2690 MHz 65° HPBW, 8x 1695-2690, 8x 2300-2690 and 8x 3300-3800MHz, 90° HPBW, 7x RET
- RVV-65D-R3VB-V2: 6-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz, 65° HPBW, 3x RET
- RRZZV6-65D-R10F: 20-port sector antenna, 4x694-960, 4x1427-2690 and 12 x 1695-2690 MHz, 65° HPBW, 10xRET
- RRVV2VVQ4-6533D-R9: 24-port sector/multibeam antenna, 4x 694–960, 4x 1695-2690MHz 65° HPBW, 8x 1710-2690MHz 4x33° HPBW and 8x 2300-3800MHz, 90° HPBW 9x RET
- R-65C-R1VB-V4: 2-port sector antenna, 2x 694–960MHz, 65°HPBW, 1x RET
- RRVV-65D-R4VB: 8-port sector antenna, 4x 694–960 and 4x 1695–2690 MHz, 65°HPBW, 4x RET
- RRZZVVQ4Q4-65DR8: 28-port sector antenna,4 x 694-960 MHz, 4 x 1695-2690 MHz and 4 x 1427-2690 MHz, 65° HPBW, 16 x 2300-3800 MHz, 90° HPBW, 8 x RET
- RRVV-65B-R4-V4: 8-port sector antenna, 4x 694–960 and 4x 1695–2690 MHz, 65° HPBW, 4x RET
- U4-90S-R1-J: 8 Port Beamforming, 8x 3400-5000, 90deg HPBW, 1xRET, 700mm length.
- RV4T4-65D-R6VB: 18-port sector antenna, 2x 698–960, 8x 1710-2690MHz, 65° HPBW, and 8x 2300-2690MHz, 80° HPBW, 6x RET
- S4-90M-R1B-3XKIT: Tri-sector solution that includes 3 S4-90M-R1B-V1 antennas and a lightweight mounting kit to install them on a pipe
- O2P-2L-B1: 2 Port omni antenna, 2x 694–960 MHz, 360° HPBW, 1x RET
- 4V-15A-R4*: 8-port multibeam antenna, 8x 1710–2690 MHz, 4x 15-17° HPBW, 4x RET
- 6V-10M-F6*: 12-port multibeam antenna, 12x 1695–2690 MHz, 6x 10-14° HPBW, fixed electrical tilt
- 6VV-10A-F6*: 24-port multibeam antenna, 24x 1695–2690 MHz, 6x 10-14° HPBW, fixed electrical tilt, 1.3m length
- RRZZHHTTVV65CR10V3* (Wireless Antenna): 20-port sector antenna, 4x 694–960 , 4x 1427–2690, 4x 1695-2180, 4x 2490-2690 and 4x 1695-2690MHz, 65° HPBW, 10x RET
- TRX58-35-O*: 35cm shroud extension for use with tri-sector antennas (58cm diameter) to add additional height to the antenna installation.
- TRX58-80-O*: 80cm shroud extension for use with tri-sector antennas (58cm diameter) to enable TMAs / filters to be housed below the antenna or to add additional height to the antenna installation.
- TRX58-80-C*: 80cm shroud extension for use with tri-sector antennas (58cm diameter) to enable TMAs / filters to be housed below the antenna or to add additional height to the antenna installation.
- RRZZ-65D-R4N43V2*: 8-port sector antenna, 4 x 694–960 MHz and 4 x 1427–2690 MHz, 65° HPBW, 4x RET
- R3ZZV4-65B-R9*: 18-port sector antenna, 6x 694-960, 4x 1427-2690 and 8x 1695-2690 MHz, 65° HPBW, 9xRET
- RRZZVV-65D-R8N43D*: 12-port sector antenna, 4x 694–960, 4x 1427–2690 and 4x 1695-2690 MHz, 65° HPBW, 8x RET
- RRV4-65D-R6VB*: 12-port sector antenna, 4x 694–960 and 8x 1695–2690 MHz, 65° HPBW, 6x RET
- RRV4-65B-R6H4VB*: 12-port sector antenna, 4x 694–960 and 8x 1695–2690 MHz, 65° HPBW, 6x RET
- RRVV-65A-R4VB*: 8-Port antenna, 4 x 694-960 MHz, 4 x 1695-2690 MHz, 65° HPBW, 4 x RETs
- RRVV-65B-R4VB-V2*: 8-port sector antenna, 4x 698-960 and 4x 1710–2690 MHz, 65° HPBW, 4x RET
- RV4-65B-R5VB*: 10-port sector antenna, 2x 694-960 and 8x 1695-2690 MHz, 65° HPBW, 5x RET
- 3X-KKV4S4-65B-R15*: 60-Port antenna, 12 x 694-960 MHz, 24 x 1695-2690 MHz, 24 x 3100-4200 MHz, 65° HPBW, 15 x RETs, 2.2m Length
- 3X-KVVSS-65A-R9*: 30- ports tri-sector antenna, 6x 617-960, 12x 1695-2690 and 12x 3100-4200 MHz, 65° HPBW, 9x RETs. Both high bands share the same electrical tilt

* Please contact CommScope Technical Support to learn more about this product.

Discontinued Products

These part numbers will be discontinued on March 30, 2024.

Discontinued Part Number	Description	Replacement P/N
2UNPX206.12R2		
ATCB-DB9-001-B		
ATCB-DB9-025-A		
CNLPX3055F		
CVV2NPX308.208R		
DB583-Y		
DBXDH-6565B-A2M		
DBXDH-6565B-VTM		
DBXLH-6565A-A2M		
DBXLH-6565B-A2M		
DBXLH-6565C-VTM		
EGZHHTT-65A-R6		
EGZV4-65D-R6		
HBX-6513DS-A1M		
HBX-6513DS-VTM		
HBX-6516DS-VTM		
HBX-9016DS-A1M		
HBXX-3319DS-VTM		
HBXX-3817TB1-VTM		
HBXX-6516DS-A2M		
HBXX-6516DS-VTM		
HBXX-9014DS-VTM		
HBXXX-6516DS-VTM		
HHTTP-65T-F		
HHTTV-65A-R3		
HWXX-6516DS1-A2M		
HWXX-6516DS1-VTM		
HWXXX-6516DS-A3M		
HWXXX-6516DS-VTM		
JCVV-65A-R4		

Discontinued Part Number	Description	Replacement P/N
LDX-3319DS-A1M		
LDX-6513DS-A1M		
LDX-6513DS-VTM		
LDX-6515DS-VTM		
LDX-6516DS-VTM		
LDX-9013DS-VTM		
LNX-6514DS-A1M-KT		
LNX-6514DS-R1		
LRX-8512DS-VTM		
NH360QS-F0M		
RR-65B-R2-KT		
RR-65B-R2-KTE		
RRT4-65B-R3		
RRZZHHTT-S4-B8V2		
RRZZT4-65A-R5-KT		
RRZZT4-KT-E1		
RRZZT4-KT-N1		
RRZZT4-KT-S4		
RVV2HH-6533D-R5		
RVV65A-R3-J		
RVVPX310.11R-V3		
RYVV-65B-R4		
RZVV-65A-R4-V3		
SSP-65T-F-V3		
T4-90A-R1		
T4-90A-R1-V2-KT		
T4-90A-R1-V5		
V3-65A-R3		
VV-65T-F-V2		
W4-90A-R1		

* Please contact CommScope Technical Support to learn more about this product.

Beamforming Antennas

Single Band TDD Antennas

High Band 2300–3800 MHz

4 Ports (2H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
SSPX310R-V2	3300–3800	65	18.00	0–10	752	300	7.5	4.3-10 Female	2	Type 7	
SS-65M-R2	3100-4200	65°	18-18.3	0–10	998	170	6.5	4.3-10 Female	2	Type 7	

8 Ports (4H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
T4-90A-R1-V2 (replaces T4-90A-R1)	2300–2690	90	18.3	2–14	1610	307	15.60	4.3-10 Female	1	Type 12	
T4-90A-R1-V5	2300-2690	90°	17.3-22.3	2–12	1610	307	15.6	MQ4/MQ5	1	Type 12	
T4-90A-R1-V6	2300-2690	90°	17-22.7	2–12	1610	307	14.2	4.3-10 Female	1	Type 12	
S4-90M-R1-V2	3300–3800	90	15.7	2–12	1015	295	14.20	4.3-10 Female	1	Type 13	
S4-90M-R1-V3	3300–3800	90°	14.4–15.7	2–12	850	307	8.8	M-LOC	1	Type 13	
S4-90M-R1-V4	3300–3800	90°	15.5–16	2–12	850	307	8.8	MQ4/MQ5	1	Type 13	
U4-90S-R1-J*	3400-5000	90°	15.3-21.5	5-15	700	200	7.5	4.3-10 Female	1	Type 13	

16 Ports (2BF)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
T4S4-90A-R2	2300–2690 3300–3800	90°	16.5 15.7–16.1	2–12	1499	498	31.5	4.3-10 Female	2	Type 92	
T4S4-90A-R2-V3	2300-2690 3300-3800	90° 90°	16.5-16.5 15.7-16.1	2-12	1499	498	31.5	M-LOC	2	Type 92	
T4S4-90A-R2-V4	2300-2690 3300-3800	90° 90°	16.5-16.5 15.7-16.1	2-12	1499	498	31.5	MQ4/MQ5	2	Type 92	

* Please contact CommScope Technical Support to learn more about this product.
Specifications are subject to change. Please visit our website for the latest specifications.

Beamforming Antennas

Multiband Slim FDD+TDD Antennas, 395mm-width

694–960 MHz/1427–2690 MHz/3300–3800 MHz

22 Ports (2L5H & 1BF)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
EGZHHTTS4-65B-R7V2	694–862 880–960 1427–2690 1695-2180 2490–2690 3300–3800	65° 65° 65° 65° 65° 90°	14.7 15 14.6–17 16.5 16.7 15.1	2-12	2100	395	42	4.3-10 Female MQ4-MQ5	7	Type 58	
EGZHHTTS4-65B-R7	694–862 880–960 1427–2690 1695–2180 2490–2690 3300–3800	65° 65° 65° 65° 65° 90°	14.7 15 14.6-17 16.5 16.7 15.1	2-12	2100	395	42	4.3-10 Female M-LOC	7	Type 60	

Specifications are subject to change. Please visit our website for the latest specifications.

Beamforming Antennas

Multiband Slim FDD+TDD Antennas, 430mm-width

694–960 MHz/1427–2690 MHz/3300–3800 MHz

18 Ports (3L2H & 1BF)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
EGRZVS4-65D-R6N43	694–862 880–960 694–960 427–2690 1695–2690 3300–3800	65°	15.6 16.1 16.3 16.2–18.2 18.2–18.7 15.8	2–12	2769	430	55.0	4.3-10 Female	6	Type 87	

20 Ports (2L4H & 1BF)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRZZVVS4-65B-R7N43	694–960 1427-2690 1695-2690 3300-3800	65° 65° 65° 90°	15.6-16.4 15.4-18.3 17.3-18.1 15.8-20.9	2-12	2100	430	38.2	4.3-10 Female | M-LOC	7	Type 76	
RRZZVVS4-65D-R7N43	694–960 1427-2690 1695-2690 3300-3800	65° 65° 65° 90°	15.6-16.4 15.4-18.3 17.3-18.1 15.8-20.9	2-12	2769	430	49.6	4.3-10 Female M-LOC	6	Type 75	
RRZZVVS4-65BR7NV4	694-960 1427-2690 1695-2690 3300-3800	65° 65° 65° 90°	14.1-15 14.1-16.6 17.6-18.2 16	2-14 2-12 2-12	2100	430	46	4.3-10 Female | MQ4/MQ5	7	Type 76	
RRZZVVS4-65DR7NV4	694–960 1427-2690 1695-2690 3300-3800	65° 65° 65° 90°	15.6-16.4 15.4-18.3 17.3-18.1 15.8-20.8	2-12	2769	430	49.6	4.3-10 Female | MQ4/MQ5	7	Type 75	

Specifications are subject to change. Please visit our website for the latest specifications.

Beamforming Antennas

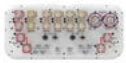
Multiband Slim FDD+TDD Antennas, 430mm-width

694–960 MHz/1427–2690 MHz/3300–3800 MHz

24 Ports (2L6H & 1BF)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRZZHHTTS4-65B-R8N	694–960 1427–1518 1695–2180 2490–2690 3300–3800	65°	14.1–15.0 14.1–16.6 17.1 17.7 16.0	2–12	2100	430	47.0	4.3-10 Female M-LOC	8	Type 88	
RRZZHHTTS4-65BR8V2	694–960 1427–2690 1695–2180 2490–2690 3300–3800	65°	14.1–15.0 14.1–16.6 17.1 17.7 15.8	2–12	2100	430	47.0	4.3-10 Female MQ4-MQ5	8	Type 88	
RRZZV4S4-65D-R9N43	694–960 1427-2690 1695-2690 3300-3800	65° 65° 65° 90°	15.6-16.4 15.5-18.3 17.1-17.9 16.3-21.2 15.8-20.8	2-12 2-12 2-12 2-12 2-12	2769	430	53.8	4.3-10 Female M-LOC	9	Type 77	
RRZZV4S4-65DR9NV4	694-960 1427-2690 1695-2690 3300-3800	65° 65° 65° 90°	15.6-16.5 15.8-18.5 17.3-18 15.8	2-12	2769	430	37.965	4.3-10 Female MQ4-MQ5	9	Type 77	

24 Ports (3L5H & 1BF)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
EGRZV4S4-65D-R9N43	694–862 880–960 694–960 1427–2690 1695–2690 3300–3800	65°	15.8 16.3 16.4 16.4–18.2 17.4–18.0 16.0	2–12	2767	430	59.0	4.3-10 Female	9	Type 89	

Specifications are subject to change. Please visit our website for the latest specifications.

Beamforming Antennas

Multiband FDD + TDD Antennas

694–960 MHz/1427–2690 MHz/3300–3800 MHz

10 Ports (1L2H & 4x4 MIMO in 3.5GHz)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
KVVSS-65A-R3**	617-960, 1695-2690, 3100-4200	65° 65° 65°	12.9-13.2 16.4-17.3 15.5-16.0	4-18 0-12 0-12	1219	301	16.1	4.3-10 Female	3	Type 102	

14 Ports (1L2H & 1BF)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RVVT4-65D-R4	694–960 1695–2690 2300–2690	65° 65° 90°	16.6–17.3 16.8–17.3 16.3-21.3	0–10 2–12 2–12	2688	350	37.8	4.3-10 Female	4	Type 91	

16 Ports (2L2H & 1BF)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRZZS4-65D-R5	694–960 1427–2690 3300–3800	65° 65° 90°	15.9–16.8 15.3–17.7 16.5-20.9	2–12	2688	498	47	4.3-10 Female	5	Type 93	
RRZZT4-65A-R5	694–960 1427–2690 2300–2690	65° 65° 90°	13.2–13.4 15.4–18.3 16.5-21.4	2–16 2–12 2–12	1499	498	36.5	4.3-10 Female	5	Type 94	
RRZZT4-65A-R5-V2	694–960 1427–2690 2300–2690	65° 65° 90°	13.2–13.5 15.4–18.3 16.5-21.4	2–16 2–12 2–12	1499	498	36.5	4.3-10 Female	5	Type 94	

16 Ports (2L2H & 1BF Wide Band)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRVVQ4-65D-R5	694–960 1695-2690 2300-3800	65° 65° 90°	15.7-16.2 17.7-18.6 14.9-21.8	2–12	2688	498	52.6	4.3-10 Female M-LOC	5	Type 97	
RRVVQ4-65D-R5V4	694-960 1695-2690 2300-3800	65° 65° 90°	15.7-16.4 16.2-16.8 14.8-21.8	2-12	2688	498	51.8	4.3-10 Female MQ4/MQ5	5	Type 97	

**Supports 600 MHz band

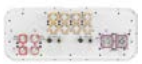
Specifications are subject to change. Please visit our website for the latest specifications.

Beamforming Antennas

Multiband FDD + TDD Antennas

694–960 MHz/1427–2690 MHz/3300–3800 MHz

20 Ports (2L4H & 1BF Wide Band)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRV4Q4-65D-R7	694-960 1695-2690 2300-3800	65° 65° 90°	15.8-16.4 15.8-17.6 16.6-21.8	2-12	2688	498	54	4.3-10 Female M-LOC	7	Type 74	
RRV4Q4-65D-R7V2	694-960, 1695-2690, 2300-3800	65° 65° 90°	15.8-16.4 15.8-17.6 15.9-21.8	0-12	2688	498	55.1	4.3-10 Female	7	Type 74	
RRV4Q4-65D-R7V4	694-960, 1695-2690, 2300-3800	65° 65° 90°	15.8-16.4 15.8-17.6 15.9-21.8	2-12	2688	498	55	4.3-10 Female MQ4/MQ5	7	Type 74	
RRVV2VVQ4-6533D-R9	694-960 1695-2690 1710-2690 2300-3800	65° 65° 33° 90°	16.2-16.8 16.2-17.8 18.7-20.5 15.8-21.2	2-12	2688	579	67	4.3-10 Female M-LOC	9	Type 111	
RRZZVVQ4-65B-R7	694-960 1427-2690 1695-2690 2300-3800	65° 65° 65° 90°	15.0-15.8 14.4-17.3 15.7-17.1 15.0-21.4	2-12	2100	498	40	4.3-10 Female M-LOC	7	Type 74	
RV4T4-65D-R6VB*	698-960 1710-2690 2300-2690	65° 65° 80°	15.7-16.5 16.1-17.2 15.9-20.9	2-16 2-12	2467	397	36	4.3-10 Female	6	Type 112	
RRV4Q4-65A-R7	694-960 1695-2690 2300-3800	65° 65° 90°	13.3-13.8 16.0-17.1 11.6-18.3	2-16 2-12	1499	498	35	4.3-10 Female M-LOC	7	Type 74	

22 Ports (3L4H & 1BF Wide Band)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
EGRV4Q4-65D-R8	694-862 880-960 694-960 1695-2690 2300-3800	65° 65° 65° 65° 90°	15.5 15.9 15.7 15.5-17.3 15.2-21.9	2-12	2688	498	60.6	4.3-10 Female M-LOC	8	Type 73	

28 Ports (2L4H & 2BF Wide Band)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRZZVVQ4Q4-65DR8V4	694-960 1427-2690 1695-2690 2300-3800	65° 65° 65° 90°	15.8-16.0 15.2-18.1 16.5-18.1 14.0-21.4	2-12	2688	498	56.5	4.3-10 Female MQ4/MQ5	8	Type 109	
RRZZVVQ4Q4-65DR8	694-960 1427-2690 1695-2690 2300-3800 2300-3800	65° 65° 65° 90° 90°	15.8-16.1 15.3-18.2 16.7-18.3 14.2-21.3 14.2-21.3	2-12	2688	498	56.5	4.3-10 Female M-LOC	8	Type 109	

32 Ports (2L4H & 2BF Wide Band)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
EEGGV4Q4Q465DR10	694-862 880-960 1695-2690 2300-3800	65° 65° 65° 90°	15.2 15.6 15.7-17.4 15.2-21.6	2-12	2688	498	69.5	4.3-10 Female MQ4/MQ5	10	Type 110	

* Please contact CommScope Technical Support to learn more about this product.
Specifications are subject to change. Please visit our website for the latest specifications.

Beamforming Antennas

Multiband FDD + TDD Antennas

694–960 MHz/1427–2690 MHz/3300–3800 MHz

24 Ports (2L2H & 2BF)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRZZT4S4-65B-R6	694–960 1427–2690 2300–2690 3300–3800	65° 65° 90° 90°	15.1–15.6 16.0–18.3 15.3-20.6 15.9-20.9	2–12	2100	498	47.6	4.3-10 Female	6	Type 95	
RRZZT4S4-65B-R6V4	694–960 1427-2690 2300-2690 3300-3800	65° 65° 90° 90°	15.1-15.6 16.0-18.3 15.3-20.6 15.9-20.9 15.8-20.8	2-12	2100	498	47.6	4.3-10 Female MQ4/MQ5	6	Type 95	
RRVVT4S4-65D-R6	694–960 1695–2690 2300–2690 3300–3800	65° 65° 90° 90°	15.8–16.5 18.3–19.2 16.0-20.5 15.9-20.9	2–12	2688	498	56.8	4.3-10 Female M-LOC	6	Type 95	
RRZZHHTTS4-65B-R7	694–960 1427–2690 1695–2180 2490–2690 3300–3800	65° 65° 65° 90° 90°	14.7–15.3 15.0–17.0 17.9 18.7 16-20.8	2–12	2100	498	47	4.3-10 Female	7	Type 96	
RRYYHHTTS4-65A-R7	694–960 1427–1518 1695–2180 2490–2690 3300–3800	65° 65° 65° 65° 90°	13.4–13.8 14.9 15.9 16.8 15.9-20.6	2-16 2-12 2-12 2-12 2-12	1499	498	39.2	4.3-10 Female	7	Type 56	

28 Ports (2L4H & 2BF)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRZZVVT4S4-65B-R8	694–960 1427-2690 1695-2690 2300–2690 3300-3800	65° 65° 65° 90° 90°	15.1-15.7 14.7-17.7 15.7-16.8 15.2-20.3 16.0-20.8	2-12	2180	498	48	4.3-10 Female M-LOC	8	Type 64	
RRZZVVT4S4-65D-R8	694–960 1427–2690 1695–2690 2300–2690 3300-3800	65° 65° 65° 90° 90°	15.7–16.1 14.9–17.8 16.8–17.8 16.3–21.2 15.9–20.3	2-12	2688	498	59.4	4.3-10 Female M-LOC	8	Type 64	
RRZZVVT4S4-65DR8V2	694–960 1427-2690 1695-2690 2300–2690 3300-3800	65° 65° 65° 90° 90°	15.7-16.1 14.9-17.8 16.8-17.8 16.3-21.2 15.9-20.3	2-12 2-12 2-12 2-12 2-12	2688	498	59.4	4.3-10 Female | MQ4/MQ5	8	Type 64	

32 Ports (2L6H & 2BF)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRYYHHTTT4S4-65BR8	694–960 1427–1518 1695–2180 2490–2690 2300–2690 3300–3800	65° 65° 65° 65° 90° 90°	15.0–15.5 15.4 16.9 17.7 14.9-20.0 16.1-20.9	2-12	2100	498	52	4.3-10 Female M-LOC	8	Type 59	

Specifications are subject to change. Please visit our website for the latest specifications.

Multibeam Antennas

Single Band Antennas

Low Band 694–960 MHz

2 Ports (1L)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
2UPX210B-T2	694–896	37°	17.9–18.7	0–10	2533	640	47	7-16 DIN Female	2	Type 47	
2CPX208R-V3	790–960	38°	18.1–18.6	0–10	2090	504	32.5	7-16 DIN Female	2	Type 47	

10 Ports (5L)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
5UPX0805F	698–894	13.5°	20.6	6	1617	1574	85	7-16 DIN Female	0	5-Beam Antenna	

Single Band Antennas

High Band 1695–2690 MHz

4 Ports (2H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
HBXX-3817TB1-VTM** HBXX-3817TB1-A2M	1710–2180	38°	19.3–19.9	0–10	1390	301	13.6	7-16 DIN Female	2	Type 48	
2H-33A-R2	1695–2400	38°	19.1–19.9	2–12	1400	350	17.6	4.3-10 Female	2	Type 49	

Specifications are subject to change. Please visit our website for the latest specifications.
**-VTM models require a RET actuator to be ordered separately.

Multibeam Antennas

Single Band Antennas

High Band 1695–2690 MHz

8 Ports (4H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
2HH-38A-R4-V2	1695–2400	38°	19.3–20.0	2–10	1224	640	29.7	4.3-10 Female	4	Type 50	
2VV-33C-R4	1695–2690	33°	18.4–20.2	2–12	2499	395	36.0	4.3-10 Female	4	Type 51	
2VV-33C-R4-V4	1695–2690	33°	18.4–20.2	2–12	2499	395	36.8	4.3-10 Female	4	Type 51	
2VV-33C-R4-V6*	1695–2690	33°	19.1–19.6	2–14 2–12 2–12	2499	395	29.8	4.3-10 Female	4	Type 51	
2VV-33B-R4*	1695–2690	33°	17.7-18.6	2–12	1999	395	25.4	4.3-10	4	Type 51	
4V-15A-R4*	1710–2690	15°	20.3-21.4	2-10	1224	640	39	4.3-10 Female	4	Type 120	

* Please contact CommScope Technical Support to learn more about this product.
Specifications are subject to change. Please visit our website for the latest specifications.

Multibeam Antennas

Single Band Antennas

High Band 1695–2690 MHz

10 Ports (5H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
5NPX1006F	1710–2180	10–14°	21.7–22.3	6	889	864	30	7-16 DIN Female	0	5-Beam Antenna	
5NPX1006F-V2	1710–2180	10–14°	21.7–22.3	6	889	864	30	4.3-10 Female	0	5-Beam Antenna	

12 Ports (6H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
6V-10M-F6*	1710–2690	10°	20.4-21.9	-	700	970	30	4.3-10 Female	-	Type 117	

18 Ports (9H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
2X9NPA2010F	1710–2170	5°	25.0–27.0	4	1771	1486	140	7-16 DIN Female	0	9-Beam Antenna	

24 Ports (6H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
6VV-10A-F6*	1710–2690	10°	20.0-21.3	-	1300	970	54	4.3-10 Female	-	Type118	

* Please contact CommScope Technical Support to learn more about this product.
Specifications are subject to change. Please visit our website for the latest specifications.

Multibeam Antennas

Multiband Hybrid Antennas

694–960 MHz/1695–2690 MHz

10 Ports (1L4H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
R2HH-6533A-R5	694–960 1710–2180	65° 33°	14.4–14.9 15.9–17.1	2–14	1580	350	25	4.3-10 Female	5	Type 52	
R2HH-6533D-R5	694–960 1695–2180	65° 33°	16.4–16.9 18.4–19.8	2–12	2688	350	35	4.3-10 Female	5	Type 52	
CVV2NPX308.208R	790–960 1695–2690 1695–2180	65° 65° 33°	15.8–16.1 16.9–17.3 16.2–18.1	0–10	2065	350	35.5	7-16 DIN Female	5	Type 53	
RVV2NPX310.211R	694–960 1695–2690 1695–2180	65° 65° 33°	16.2–16.7 17.5–18.2 17.2–18.8	0–10	2764	350	46.1	7-16 DIN Female	5	Type 53	
RVV2H-6533B-R5	694–960 1695–2690 1710–2400	65° 65° 33°	15.0–15.3 16.6–17.3 16.4–18.0	2–14 2–12 2–12	1996	350	30.5	4.3-10 Female	5	Type 54	
RVV2H-6533D-R5	694–960 1695–2690 1695–2180	65° 65° 33°	16.6–16.9 16.8–17.9 18.1–19.2	0–10 2–12 2–12	2688	350	30.5	4.3-10 Female	5	Type 54	

Specifications are subject to change. Please visit our website for the latest specifications.

Multibeam Antennas

Multiband Hybrid Antennas

694–960 MHz/1695–2690 MHz

12 Ports (2L4H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RR2HH-6533D-R6	694–960 1695–2400	65° 33°	15.7–16.4 17.9–19.3	2–12	2688	498	54	4.3-10 Female	6	Type 55	
RR2VV-6533B-R6	698–960 1710–2690	65° 33°	15.1–15.5 17.4–19.5	2–12 2–12	2100	498	43	4.3-10 Female	6	Type 55	
RR2VV-6533D-R6	698–960 1710–2690	65° 33°	15.7–16.5 18.3–19.8	2–12	2688	498	52.6	4.3-10 Female	6	Type 55	

14 Ports (1L6H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RVV2VV-6533D-R7	694–960 1695–2690 1695–2690	65° 65° 33°	16.6–16.8 17.1–18.0 17.4–19.1	2–12	2688	498	55.6	4.3-10 Female	7	Type 67	

Specifications are subject to change. Please visit our website for the latest specifications.

Multibeam Antennas

Multiband Hybrid Antennas

694–960 MHz/1695–2690 MHz

16 Ports (2L6H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRVV2HH-6533B-R6	694–960 1695–2690 1695–2400	65° 65° 33°	15.1–15.6 17–18.3 16.6–18.2	2–12	2100	498	46	4.3-10 Female	6	Type 63	
RRV42H-6533D-R8	694–960 1695–2690 4x1695–2400	65° 65° 33°	15.9–16.6 16.5–18.4 17.9–19.4	2–12	2688	498	53.6	4.3-10 Female	8	Type 65	
RRZZ2VV-6533B-R8	694–960 1427–2690 1710–2690	65° 65° 33°	15.1–15.6 15.4–18.3 17.1–19.1	2–12	2100	498	46	4.3-10 Female	8	Type 68	
RRZZ2VV-6533D-R8	694–960 1695-2690 1695–2690	65° 65° 33°	15.6-16.3 17.5-18.9 15.3-17.5	2-12	2688	498	-	4.3-10 Female	8	Type 68	
RRVV2VV-6533D-R8	694-960 1695-2690 1710-2690	65° 65° 33°	15.6-16.0 16.9-18.7 17.7-19.3	2-12 2-12 2-12	2577	498	48.5	4.3-10 Female	8	Type 68	
2RR2VV-33C-R4	694-960 1695-2690	33° 33°	14.0-15.5 17.2-18.5	2-16 2-12	2235	640	64	4.3-10 Female	4	Type 105	

20 Ports (2L8H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRV42VV-6533D-R10	694-960, 1695-2690, 1710-2690	65° 65° 33°	15.6-15.9 15.7-17.7 17.5-19.4	2-12	2688	498	58.6	4.3-10 Female	10	Type 103	

Specifications are subject to change. Please visit our website for the latest specifications.

Omni Antennas

Single Band Antennas

Low Band 108–960 MHz

1 Port

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	Total RF Connector Qty	RF Connector Type	RET Qty
ASP7A	108–512	360°	2.1	0	660	Ø 13	0.8	1	N Female	0
DB224-E	138–150	360°	8.1	0	6858		17.2	1	N Male	0
DB222-A	150–158	360°	5.1	0	3226		7.2	1	N Male	0
DB224-A	150–160	360°	8.1	0	6477		15.9	1	N Male	0
DB224-B	155–165	360°	8.1	0	6477		15.9	1	N Male	0
DB224-C	164–174	360°	8.1	0	6477		15.9	1	N Male	0
DB201-P	450–470	360°	2.1	0	483		2.7	1	N Male	0
DB404-B	450–470	360°	5.9	0	1524		6.4	1	N Male	0
DB408-B	450–470	360°	8.7	0	2870		7.7	1	N Male	0
DB411-B	450–470	360°	11.1	0	2870		11.3	1	N Male	0
DB420-B	450–470	360°	11.3	0	5918		15.6	1	N Male	0
ASP705K	450–470	360°	12.1	0	5588	Ø 76	10.0	1	N Female	0
DB630-C	450–482	360°	2.1	0	965	Ø 51	2.7	1	N Female	0
DB633-C	450–482	360°	5.1	0	1435	Ø 51	3.6	1	N Female	0
DB636-C	450–482	360°	8.1	0	2896	Ø 64	30.0	1	N Female	0
UNA008R-V2 (replaces UNA008RI-V2)	694–896	360°	8.9	0–8	2815	Ø 56	9.8	1	7-16 DIN Female	1
UNA010F-0-V2	694–896	360°	11.1	0	3414	Ø 56	9.1	1	7-16 DIN Female	0
UNA010FI-0-V2	694–896	360°	10.9	0	3414	Ø 56	9.1	1	7-16 DIN Female	0
DB810E-PS	746–869	360°	12.1	0	4483	Ø 76	17.0	1	7-16 DIN Female	0
DB809KE-XT	806–869	360°	11.1	0	3708	Ø 76	12.0	1	7-16 DIN Female	0
DB586-Y	890–960	360°	8.1	0	1499	Ø 38	3.6	1	N Female	0
DB589-Y	890–960	360°	11.1	0	2794	Ø 38	5.2	1	N Female	0

Specifications are subject to change. Please visit our website for the latest specifications.

Sector Antennas

Single Band Slim FDD Antennas, 430mm-Width

Low Band 694–960 MHz

4 Ports (2L)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RR-65D-R2N43	694–960	65°	15.7–16.8	2–12	2769	430	37.7	4.3-10 Female	2	Type 4	
RR-85D-R2N43	694-960	85°	16.1-17.3	2-12	2769	430	37.6	4.3-10 Female	2	Type 4	

6 Ports (3L)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
EGR-65D-R3N43	694-960	65°	15.8-16.7	2-12	2769	430	45.5	4.3-10 Female	3	Type 57	

Single Band Slim FDD Antennas, 430mm-Width

High Band 1427–2690 MHz

8 Ports (4H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
ZZVV-65A-R4N43	1427–2690 1695–2690	65°	15.4–17.6 16.8–17.6	2–12	1546	430	40	4.3-10 Female	4	Type 10	

Specifications are subject to change. Please visit our website for the latest specifications.

Sector Antennas

Multiband Slim FDD Antennas, 395mm-width

694–960 MHz/1427–2690 MHz

8 Ports (2L2H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRZZ-65A-R4N39	694-960 1427-2690	65°	12.5-13.9 14.9-17.1	3-16 2-12	1499	395	30	4.3-10 Female	4	Type 81	
RRZZ-65D-R4N39	694–960 1427–2690	65°	15.6–16.6 15.4–18.0	2-12 2-12	2769	395	35.5	4.3-10 Female	4	Type 81	
RRZZ-65B-R4N39	694–960 1427–2690	65°	13.8–15.3 16.0–18.0	2-12	2100	395	30.5	4.3-10 Female	4	Type 81	

12 Ports (2L4H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRV4-65B-R6N39	694-960 1695-2690	65°	14.2-15.0 15.9-17.0	2-12	1999	395	30	4.3-10 Female	6	Type 35	

12 Ports (1L5H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RZV4-65D-R6	694–960 1427–2690 1695–2690	65°	17.1–16.8 17.0–18.3 15.5–17.6	2–12	2688	395	37.4	4.3-10 Female	6	Type 31	
RZV4-65D-R6-V2*	694–960 1427–2690 1695–2690	65°	16.8–17.1 15.5–17.6 17–18.3	2–12	2688	395	37.4	4.3-10 Female	6	Type 31	
RVHHTT-65A-R5	694–960 1695–2690 1695–2180 2490–2690	65°	14.0–14.6 16.7–17.3 16.6–17.4 17.3	2–17 2–12 2–12 2–12	1500	395	24	4.3-10 Female	5	Type 32	

14 Ports (2L5H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRZHHTT-65A-R6N39	694–960 1427–2690 1695–2180 2490–2690	65°	13.1–13.6 15.2–18.1 16.7 17.9	3–16 2–12 2–12 2–12	1499	395	27.3	4.3-10 Female	6	Type 80	

16 Ports (2L6H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
EGZV5-65D-R6-V2*	694–862 880–960 1427–2690 1695–2690	65°	16.3 16.5 15.2–17.6 16.8–17.7	2–12	2688	395	46.9	4.3-10 Female	6	Type 40	

* Please contact CommScope Technical Support to learn more about this product.
Specifications are subject to change. Please visit our website for the latest specifications.

Sector Antennas

Multiband Slim FDD Antennas, 430mm-width

694–960 MHz/1427–2690 MHz

8 Ports (2L2H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRZZ-65B-R4N43V1*	694–960 1427–2690	65°	14.6-15.6 16.5-19.2	2–12	2100	430	32.0	4.3-10 Female	8	Type 81	
RRZZ-65B-R4N43	694–960 1427–2690	65°	14.6–15.3 16.2–18.4	2–12	2100	430	32.0	4.3-10 Female	4	Type 81	
RRZZ-65D-R4N43	694–960 1427–2690	65°	15.6–16.6 15.4–18.0	2-12	2769	430	43	4.3-10 Female	4	Type 81	
RRZZ-65D-R4N43V1	694–960 1427–2690	65°	15.9–17.0 16.5–19.2	2-12	2769	430	38.7	4.3-10 Female	4	Type 81	
RRZZ-65D-R4N43V2*	694–960 1427–2690 1695-2180 2490-2690 1695-2690	65°	15.4-16.5 16.5-18.9	2-12	2688	430	38.7	4.3-10 Female	4	Type 81	

10 Ports (3L2H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
EGRZV-65D-R5N43	694–862 880–960 694–960 1427–2690 1695–2690	65°	15.6 16.1 16.3 16.2–18.2 18.2–18.7	2–12	2769	430	52.0	4.3-10 Female	5	Type 82	

* Please contact CommScope Technical Support to learn more about this product.
Specifications are subject to change. Please visit our website for the latest specifications.

Sector Antennas

Multiband Slim FDD Antennas, 430mm-width

694–960 MHz/1427–2690 MHz

12 Ports (2L4H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRV4-65A-R6N43	694-960 1695-2690	65°	13.9-14.2 16.6-18.5	2-12	1549	430	28.7	4.3-10 Female	6	Type 35	
RRV4-65B-R6N43	694–960 1710–2690	65°	14.8–15.3 17.1–18.1	2–12	2100	430	36	4.3-10 Female	6	Type 35	
RRZZVV-65A-R6N43	694–960 1427–2690 1695–2690	65°	12.4–13.2 13.6–17.1 16.1–17.0	2–12	1499	430	31.0	4.3-10 Female	6	Type 35	
RRZZVV-65B-R6N43	694–960 1427–2690 1695–2690	65°	14.6–15.1 15.5–18.3 17.8–18.6	2–12	2100	430	35.6	4.3-10 Female	6	Type 35	
RRZZVV-65BR6NV1	694–960 1427–2690 1695-2690	65°	14.7–15.1 15.5–18.3 17.8-18.6	2-12	2100	430	35.6	4.3-10 Female	6	Type 35	
RRZZVV-65AR6NV1	694-960, 1427-2690, 1695-2690	65° 65° 65°	13.4-14.3 15.3-18.5 17.4-18.0	2-16 2-12	1599	430	30.4	4.3-10 Female	6	Type 35	
RRZZVV-65B-R6NV2	694–960 1427-2690 1695–2690	65°	14.6–15.1 15.5–18.3 17.8-18.6	2-12	2100	430	35.4	4.3-10 Female	6	Type 35	
RRZZVV-65D-R6N43	694–960 1427–2690 1695–2690	65°	15.4-16.2 15.4-17.7 17.5-18.1	2–12	2769	430	44.7	4.3-10 Female	6	Type 35	
RRZZVV-65D-R6N43V2	694–960 1427-2690 1695–2690	65°	15.8–16.6 15.3–17.8 17.6-18.3	2–12	2769	430	44.9	4.3-10 Female	6	Type 35	
RRZZVV-65B-R6NV3 (Wireless Antenna)	694-960 1427–2690 1695- 2690	65°	14.8-15.4 16-18.4 17.7-18.8	2-12	2100	430	37.5	4.3-10 Female	6	Type 35	
RRZZVV-65D-R8N43D*	694–960 1427–2690 1695-2690	65° 65° 65°	15.6-16.5 15.3-17.7 17.-17.5	2-12	2769	430	44.9	4.3-10 Female	8	Type114	

* Please contact CommScope Technical Support to learn more about this product.
Specifications are subject to change. Please visit our website for the latest specifications.

Sector Antennas

Multiband Slim FDD Antennas, 430mm-width

694–960 MHz/1427–2690 MHz

16 Ports (2L6H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRZZHHTT-65A-R7N43	694–960 1427–2690 1695–2180 2490–2690	65°	12.8–13.5 14.3–17.1 15.7 16.7	2–12	1499	430	32.0	4.3-10 Female	7	Type 84	
RRZZHHTT-65B-R7N43	694–960 1427–2690 1695–2180 2490–2690	65°	14.8–15.3 16.0–18.1 17.4 17.7	2–12	2100	430	49.7	4.3-10 Female	7	Type 84	
RRZZHHTT-65BR7N43F (Fix Mechanical Tilt)	694-960 1427-2690 1695-2180 2490-2690	65° 65° 65° 65°	14.4-15 14.6-18.0 15.9-16.7 17	2-12	2100	430	37.5	4.3-10 Female	7	Type 84	
RRZZHHTT-65AR7N43F (Fix Mechanical Tilt)	694-960 1427-2690 1695-2180 2490-2690	65° 65° 65° 65°	13.4-13.8 15.6-18 16.6-17.2 17.4	2-12	1599	430	33.2	4.3-10 Female	7	Type 84	
RRZZV4-65D-R8N43	694–960 1427-2690 1695–2690	65°	15.7-16.6 15.8-18.5 17.3-18.0	2-12	2769	430	49.5	4.3-10 Female	8	Type 85	
RRZZV4-65D-R8NV1	694-960 1427-2690 1695-2690	65° 65° 65°	15.6-16.2 15.3-18.2 16.2-17.9	2-12	2769	430	47.9	4.3-10 Female	8	Type 85	

16 Ports (3L5H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
EGRZV4-65D-R8N43	694–862 880–960 694–960 1427–2690 1695–2690	65°	15.3 15.6 15.9 16.2–18.0 16.5–17.6	2–12	2769	430	56.0	4.3-10 Female	8	Type 86	

18 Ports (3L4H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
EGRZZHHTT-65BR8N43	694–862 880-960 694–960 1427–2690 1695-2200 2490-2690	65°	14.4 14.9 15.1 15.6 17.4 18.2	2-12	2100	430	46.5	4.3-10 Female	8	Type 72	
EGRZZHHTT-65A-R8	694–862 880-960 694–960 1427–2690 1695-2180 2490-2690	65° 65° 65° 65° 65° 65°	13.6 13.8 14.3 15.9-18 17.2 17.8	3-16 2-12	1599	498	39	4.3-10 Female	8	Type 72	

Specifications are subject to change. Please visit our website for the latest specifications.

Sector Antennas

Single Band Antennas

Low Band 410–960 MHz

2 Ports (1L)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
DB654DG65A-C	410–512	65	15	0	1981	483	19.00	7-16 DIN Female	0	Type 1	
LDX-3319DS-VTM** LDX-3319DS-A1M	790–960	33	20	0–8	2581	591	29.00	7-16 DIN Female	1	Type 1	
LDX-6513DS-VTM** LDX-6513DS-A1M	790–960	65	15	0–15	1297	269	9.30	7-16 DIN Female	1	Type 1	
LDX-6515DS-VTM**	790–960	65	16	0–10	2073	269	15.00	7-16 DIN Female	0	Type 1	
LDX-6516DS-VTM** (replaces LDX-6516DS1-VTM) LDX-6516DS-A1M (replaces LDX-6516DS1-A1M)	790–960	65	17	0–8	2577	269	21.00	7-16 DIN Female	1	Type 1	
LDX-9013DS-VTM**	790–960	90	14	0–10	1831	225	12.00	7-16 DIN Female	0	Type 1	
LDX-9014DS-VTM**	790–960	90	16	0–8	2435	225	18.10	7-16 DIN Female	0	Type 1	
LNX-6513DS-A1M	698–896	65	15	0–10	1390	301	14.80	7-16 DIN Female	1	Type 1	
LNX-6514DS-A1M	698–896	65	16	0–10	2048	301	14.60	7-16 DIN Female	1	Type 1	
LNX-6515DS-A1M** (replaces LNX-6515DS-VTM)	698–896	65	17	0–8	2453	301	19.80	7-16 DIN Female	1	Type 1	
LNX-8514DS-A1M	698–896	85	16	0–8	2449	301	23.10	7-16 DIN Female	1	Type 1	
LRX-8512DS-VTM**	698–960	85	14	0–15	1293	301	13.60	7-16 DIN Female	0	Type 1	
RPX310B-T2H	694–960	65	17	0–10	2533	350	26.80	7-16 DIN Female	1	Type 1	
R-65B-R1VB*	694–960	65	15.8-16.6	2-12	2000	320	19.9	4.3-10 Female	1	Type 1	
R-65C-R1VB	694-960	65°	16.8-17.8	3-14	2500	320	21	4.3-10 Female	1	Type 1	
R-65C-R1VB-V4	694-960	65°	16.5-17.4	0-10	2500	320	22.3	4.3-10 Female	1	Type 1	

Specifications are subject to change. Please visit our website for the latest specifications.
(*) Antenna will be discontinued March 31, 2023
* Please contact CommScope Technical Support to learn more about this product.
**-VTM models require a RET actuator to be ordered separately.

Sector Antennas

Single Band Antennas

Low Band 694–960 MHz

4 Ports (2L)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RR-65B-R2	694–960	65	15.00	2–12	1828	498	33	4.3-10 Female	2	Type 4	
RR-65A-R2VB	694–960	65	14.1-14.9	2–12	1497	467	19	4.3-10 Female	2	Type 4	
RR-65B-R2VB	694-960	65°	15.4-16.1	0-12	1997	467	24.5	4.3-10 Female	2	Type 4	
RR-65C-R2VB-V2	694-960	65°	15.8-16.6	0-10	2497	427	27.6	4.3-10 Female	2	Type 4	

Specifications are subject to change. Please visit our website for the latest specifications.
**-VTM models require a RET actuator to be ordered separately.

Sector Antennas

Single Band Antennas

High Band 1695–2690 MHz

2 Ports (1H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
HBX-3319DS-VTM** HBX-3319DS-A1M	1710–2180	33	20.00	0–9	1563	269	12.7	7-16 DIN Female	1	Type 2	
HBX-6513DS-VTM**	1710–2180	65	15.00	0–18	695	166	2.8	7-16 DIN Female	0	Type 2	
HBX-6516DS-VTM** HBX-6516DS-A1M	1710–2180	65	17.50	0–10	1306	166	4.7	7-16 DIN Female	1	Type 2	
HBX-9016DS-VTM** HBX-9016DS-A1M	1710–2180	90	18.00	0–6	1897	172	7.6	7-16 DIN Female	1	Type 2	
V-33A-R1VB*	1695–2690	33	20.1-21.5	2-12	1475	300		4.3-10 Female	1	Type 3	
V-65A-R1VB*	1695–2690	65	17.2-18.8	2-12	1491	160	8.2	4.3-10 Female	1	Type 3	

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**-VTM models require a RET actuator to be ordered separately.

Sector Antennas

Single Band Antennas

High Band 1695–2690 MHz

4 Ports (2H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
HBXX-3319DS-VTM** HBXX-3319DS-A2M	1710–2180	33	20.50	0–10	1448	564	17.3	7-16 DIN Female	2	Type 5	
HBXX-6513DS-A2M	1710–2170	65	14.00	0–12	695	305	7.90	7-16 DIN Female	2	Type 5	
HBXX-6516DS-VTM** HBXX-6516DS-A2M	1710–2180	65	17.70	0–10	1297	305	13.90	7-16 DIN Female	2	Type 5	
HBXX-6517DS-VTM** HBXX-6517DS-A2M	1710–2180	65	19.00	0–6	1906	305	18.50	7-16 DIN Female	2	Type 5	
HBXX-9014DS-VTM** HBXX-9014DS-A2M	1710–2180	90	16.00	0–10	1297	305	13.50	7-16 DIN Female	2	Type 5	
HWXX-6516DS1-VTM** HWXX-6516DS1-A2M	1710–2690	65	17.40	0–10	1390	305	10.20	7-16 DIN Female	2	Type 6	
HWXX-6516DS1-VTMV2**	1710–2690	65	18.00	0–11	1390	305	9.80	4.3-10 Female	2	Type 6	
VV-65A-R1B (replaces VV-65A-R1B-V2 and VVPX310R-V5)	1695–2690	65	18.50	0–12	1390	305	11.2	4.3-10 Female	1	Type 6	
VV-65A-R2	1695–2690	65	18.0	0–10	1390	305	14	4.3-10 Female	2	Type 6	
VV-65A-R2-V2	1695–2690	65	18.00	0–10	1400	300	14	7-16 DIN Female	2	Type 6	
VV-65B-R2	1695–2690	65	19.00	2–12	1786	305	13.9	7-16 DIN Female	2	Type 6	
VV-65A-R2VB-V2	1695-2690	65°	17.3-18.5	0-10	1377	257	9.8	4.3-10 Female	2	Type 6	

Specifications are subject to change. Please visit our website for the latest specifications.
(*) Antenna will be discontinued March 31, 2023

* Please contact CommScope Technical Support to learn more about this product.
**-VTM models require a RET actuator to be ordered separately.

Sector Antennas

Single Band Antennas

High Band 1695–2690 MHz

6 Ports (3H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
HBXXX-6516DS-VTM** HBXXX-6516DS-A3M	1710–2180	65	18.00	2–10	1309	500	15.3	7-16 DIN Female	3	Type 8	
HWXXX-6516DS-VTM** HWXXX-6516DS-A3M	1710–2690	65	18.00	0–10	1309	504	19.5	7-16 DIN Female	3	Type 9	
V3-65A-R3	1695–2690	65	17.20	0–10	1322	504	20	4.3-10 Female	3	Type 9	

8 Ports (4H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
V4-65D-R4-V2 (replaces V4-65D-M)	1710–2690	65	16.9-18.9	0–10	2675	301	29.50	4.3-10 Female	4	Type 11	

10 Ports (5H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
HHTTV-65A-R3	1695–2200 2490–2690 1695–2690	65°	16.7–17.2 17.2 17.7–17.2	2–12	1322	504	21	4.3-10 Female	3	Type 14	

Specifications are subject to change. Please visit our website for the latest specifications.
**-VTM models require a RET actuator to be ordered separately.

Sector Antennas

Multiband Antennas

694–960 MHz/1695–2690 MHz

4 Ports (1L1H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
DBXLH-6565B-VTM** DBXLH-6565B-A2M	824–960 1710–2180	65°	15.0–16.2 18.0–18.3	0–10 0–6	1937	269	19.00	7-16 DIN Female	2	Type 15	
DBXLH-6565C-VTM**	824–960 1710–2180	65°	16.8–17.4 18.5–18.3	0–8 0–6	2577	269	21.70	7-16 DIN Female	2	Type 15	
DBXNH-6565B-VTM** DBXNH-6565B-A2M	698–896 1710–2180	65°	15.2–16.0 19.2–18.2	0–10 0–6	1847	301	21.00	7-16 DIN Female	2	Type 15	
CV65CSX-M	790–960 1710–2690	65°	16.7–16.8 17.6–18.6	0–10 2–12	2453	301	21.20	7-16 DIN Female	2	Type 16	
RV-65A-R2 (replaces DBXLH-6565A-VTM)	694–960 1695–2690	65°	14.1–14.6 16.9–18.2	2–15 2–12	1412	301	17.10	4.3-10 Female	2	Type 16	

(*) Antenna will be discontinued March 31, 2023

Specifications are subject to change. Please visit our website for the latest specifications.
**-VTM models require a RET actuator to be ordered separately.

Sector Antennas

Multiband Antennas

694–960 MHz/1695–2690 MHz

6 Ports (1L2H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
CVV65BSX-M	790–960 1710–2690	65°	15.9–16.0 17.6–18.2	0–10 2–12	1974	301	18.80	7-16 DIN Female	3	Type 18	
CVV65CSX-M	790–960 1710–2690	65°	16.7–16.9 17.9–18.8	0–10 2–12	2453	301	22.20	7-16 DIN Female	3	Type 18	
CVVPX303F1	790–960 1710–2690	65°	10.9–11.5 13.2–14.2	0	861	353	11.00	7-16 DIN Female	0	Type 18	
RVV-65A-R3 (replaces RVV-65A-M, RVV-65A-3X2 and TBXLHA-6565B-VTM)	694–960 1695–2690	65°	14.1–14.7 17.5–18.3	3–16 2–12	1400	350	19.30	4.3-10 Female	3	Type 18	
RVV65B-C3-3XR	694–960 1695–2690	65°	15.2–15.4 18.3–19.3	0–13 2–12	1850	301	23.00	4.3-10 Female	3	Type 18	
RVV65D-C3-3XR	694–960 1695–2690	65°	16.3–17.0 18.1–19.2	0–10 2–12	2645	301	27.50	4.3-10 Female	3	Type 18	
RVV-65D-R3 (replaces CVV65DSX-M, RVV-65D-M, RVV-65D-R3-V2, and RVV-65D-R3-V3)	694–960 1695–2690	65°	16.6–17.2 18.4–19.2	0–10 2–12	2688	350	30.50	4.3-10 Female	3	Type 18	
RZZ-65B-R3	694-960, 1427-2690	65° 65°	15.4-15.8 16.7-18.8	2-14 2-12	1828	350	23.7	4.3-10 Female	3	Type 18	
RZZ-65D-R3	694-960 1427-2690	65° 65°	16.8-17.4 16.6-19.0	2-14 2-12	2688	350	37.9	4.3-10 Female	3	Type 18	
RVV-65S-FVB*	698-960 1695-2690	65° 65°	11.0-11.5 14.2-15.7	0	497	397	6	4.3-10 Female	0	Type 18	
RVV-65M-R3VB	698-960 1710-2690	65° 65°	12.8-14.1 14.8-16.5	3-16 2-12	997	397	14.2	4.3-10 Female	3	Type 18	
RVV-65B-R3VB	694-960, 1695-2690	65° 65°	15.3-16.4 17.5-18.4	2-15 2-12	1997	397	23.5	4.3-10 Female	3	Type 18	
RVV-65D-R3VB	694-960 1695-2690	65° 65°	16.7-17.7 17.5-19.2	2-12	2547	397	28.5	4.3-10 Female	3	Type 18	
RVV-65D-R3VB-V2	694-960 1695-2690	65° 65°	16.7-17.8 17.6-18.8	2-12	2547	397	28.9	4.3-10 Female	3	Type 18	

* Please contact CommScope Technical Support to learn more about this product.
(*) Antenna will be discontinued March 31, 2023
Specifications are subject to change. Please visit our website for the latest specifications.

Sector Antennas

Multiband Antennas

694–960 MHz/1427–2690 MHz

6 Ports (1L2H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
TBXLHA-6565C-A3M (replaces TBXLHA-6565C-VTM)	824–960 1710–2180	65°	16.9–17.6 16.8–17.0	0–8 2–10	2577	269	25.40	7-16 DIN Female	3	Type 17	
RVVPX303.6F12R2	694–960 1695–2690	65°	11.7–12.1 14.8–16.1	2–12 0–10	919	353	13.30	7-16 DIN Female	2	Type 18	
RVVPX306.11R-V2	698–960 1710–2690	65°	14.1–14.9 17.2–18.2	0–10	1600	353	23.00	4.3-10 Female	3	Type 18	
RVVPX308.11R-V3	694–960 1695–2690	65°	15.6–16.2 17.3–18.7	0–10	2065	350	28.50	4.3-10 Female	3	Type 18	
RVVPX310.11B-T2	694–960 1695–2690	65°	16.3–16.9 17.5–18.6	0–10	2533	350	33.20	7-16 DIN Female	3	Type 18	
RVVPX310.11R-V3	694–960 1695–2690	65°	16.3–17.0 17.4–18.5	0–10	2533	350	32.00	4.3-10 Female	3	Type 18	
RZV-65B-R3	694–960 1427–2690 1695–2690	65°	15.3–16.0 16.2 17.9–19.0	2–14 2–12 2–12	1828	350	23.00	4.3-10 Female	3	Type 18	

Specifications are subject to change. Please visit our website for the latest specifications.

Sector Antennas

Multiband Antennas

694–960 MHz/1427–2690 MHz

8 Ports (2L2H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRVV-65B-R4-V2	694–960 1695–2690	65° 	14.6–15.2 18.6–19.3	2–12	1828	498	35.50	4.3-10 Female	4	Type 19	
RRVV-65B-R4-V4	694–960 1695–2690	65° 65°	14.6–15.2 18.4–19.2	2-12	1828	498	35.3	4.3-10 Female	4	Type 19	
RRVV-65D-R4	694–960 1695–2690	65°	15.7–16.9 18.5–19.2	2–12	2688	498	48.80	4.3-10 Female	4	Type 19	
RRVV-65D-R4-V2	694–960 1695–2690	65°	15.7–16.9 18.5–19.2	2–12	2688	498	48.80	4.3-10 Female	4	Type 19	
RRVV-65D-R4VB	694–960 1695–2690	65°	16.2-16.8 17.9-18.4	2-12	2497	498	38.2	4.3-10 Female	4	Type 19	
RRZZ-65A-R4	694–960 1427–2690	65°	13.6–13.9 15.4–17.4	2–16 2–12	1499	498	33.00	4.3-10 Female	4	Type 19	
RRVV-65A-R4VB*	694–960 1695-2690	65° 65°	14.2-14.6 17.4-17.9	2-12	1499	498	30.5	4.3-10 Female	4	Type 19	
RRVV-65B-R4VB-V2*	698–960 1710-2690	65° 65°	15.6-16.3 17.3-18.5	2-12	2090	469	32	4.3-10 Female	4	Type 19	
RRZZ-65B-R4	694–960 1427–2690	65°	14.4–15.1 15.4–18.1	2–12	1828	498	35.10	4.3-10 Female	4	Type 19	
EGVV65A-FL-C3-4XR	694–862 880–960 1695–2690	65°	13.4 13.8 16.8–17.9	2–17 2–17 2–12	1416.50	301	23.90	4.3-10 Female	4	Type 20	
EGVV65B-FL-C3-4XR	694–862 880–960 1695–2690	65°	15.2 15.5 18.2–18.8	2–14 2–14 2–12	1850	350	30.50	4.3-10 Female	4	Type 20	
EGVV65D-FL-C3-4XR	694–862 880–960 1695–2690	65°	16.5 16.9 18.1–18.5	2–12	2690	350	39.60	4.3-10 Female	4	Type 20	

* Please contact CommScope Technical Support to learn more about this product.
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Sector Antennas

Multiband Antennas

694–960 MHz/1427–2690 MHz

8 Ports (1L3H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RV3-65D-R4-V2 (replaces RV365D-4X2)	694–960 1695–2690	65°	16.5–17.4 17.0–18.2	0–10 2–12	2830	350	32.5	7-16 DIN Female	4	Type 21	
RV3-65D-R4-V3	694–960 1695–2690	65°	16.5–17.4 17.0–18.2	0–10 2–12	2830	350	31.7	4.3-10 Female	4	Type 21	
RV365D-M-V2	694–960 1695–2690	65°	16.5–16.7 17.0–18.1	0–10 2–12	2645	301	31.5	4.3-10 Female	4	Type 21	
RHTV65A-FH-C3-4XR	694–960 1695–2180 2490–2690 1695–2690	65°	14.6–14.1 17.0–16.8 17.2 18.1–17.3	3–18 3–13 3–13 3–13	1400	350	19.9	4.3-10 Female	4	Type 22	
RYVV-65B-R4	694–960 1427–1518 1695–2690	65°	15.1–15.9 16.0–18.8	2–14 2–12 2–12	1828	350	25	4.3-10 Female	4	Type 23	
RZVV-65A-R4	694–960 1427–2690 1695–2690	65°	13.8–14.2 15.3–18.0	2–18 2–12 2–12	1499	395	22.6	4.3-10 Female	4	Type 24	
RZVV-65A-R4-V3*	694–960 1427–2690 1695–2690	65°	13.7–14.2 15.3– 18.0 16.8–18.0	2–18 2–12 2–12	1499	395	22.8	4.3-10 Female	4	Type 24	
RZVV-65A-R4-V4	694–960 1427–2690 1695–2690	65°	13.7–14.2 15.3–18.0 16.8–18.0	2–18 2–12 2–12	1499	395	22.8	4.3–10 Female	4	Type 24	
RZVV-65B-R4	694–960 1427–2690 1695–2690	65°	14.7–15.3 16.1 17.3–18.9	2–14 2–12 2–12	1980	395	29.4	4.3-10 Female	4	Type 24	
RRVV-85D-R4N43	694-960, 1695-2690	85° 85°	15.5-16.6 16.5-17.9	2-12	2769	430	40.7	4.3-10 Female	4	Type 19	

* Please contact CommScope Technical Support to learn more about this product.
Specifications are subject to change. Please visit our website for the latest specifications.

Sector Antennas

Multiband Antennas

694–960 MHz/1427–2690 MHz

10 Ports (1L4H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RHHTT-65A-R4-V2	694–960 1695–2180 2490–2690	65° 	14.7–14.2 17.4–17.1 17.6	3–18 3–13 3–13	1400	350	20.3	4.3-10 Female	4	Type 25	
RV4-65B-R5-V2	694–960 1695–2690	65° 	15.4–16.0 16.3–16.9	0–12	2100	350	28.0	4.3-10 Female	5	Type 26	
RV4-65B-R5-V3	694–960 1695–2690	65° 	15.4–16.0 16.3–16.9	0–12	2100	350	28.0	4.3-10 Female	5	Type 26	
RV4-65B-R5VB*	694–960 1695-2690	65° 65°	15.4-16 15.6-16.6	2-12	1990	301	21.5	4.3-10 Female	0	Type 26	
RV4-65D-M-V2 (replaces RV4-65D-M and RV4-65D-ER5)	694–960 1695–2690	65°	16.6–17.4 16.8–18.0	0–10 2–12	2688	350	32.0	4.3-10 Female	0	Type 26	

Specifications are subject to change. Please visit our website for the latest specifications.

Sector Antennas

Multiband Antennas

694–960 MHz/1427–2690 MHz

10 Ports (1L4H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RV4-65D-R5-V6	694–960 1695–2690	65°	16.7–17.4 16.8–18.1	0–10 2–12	2688	350	33.5	4.3-10 Female	5	Type 26	
RV4-65D-R5-V9	694–960 1695–2690	65°	16.3–16.9 16.9–17.1	0–10 2–12	2688	350	32.0	7-16 DIN Female	5	Type 26	
KZZVV-65D-R5**	617-960 1427-2690 1695-2690	65° 65° 65°	16.0-16.5 15.0-17.3 16.5-17.5	2-12	2688	350	33.6	4.3-10 Female	5	Type 26	
RV4PX308R-V2	694–960 1695–2690	65°	15.3–15.9 16.2–17.3	0–10	2065	350	31.8	7-16 DIN Female	5	Type 26	
RV4PX310R-V2	694–960 1695–2690	65°	16.0–16.9 16.8–18.0	0–10	2533	350	39.7	7-16 DIN Female	5	Type 26	
RV4PX306R	694–960 1695–2690	65°	14.2–14.9 14.7–16.1	0–10	1599	353	24.0	7-16 DIN Female	5	Type 27	

**Supports 600 MHz band
Specifications are subject to change. Please visit our website for the latest specifications.

Sector Antennas

Multiband Antennas

694–960 MHz/1427–2690 MHz

10 Ports (2L3H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRV3-65D-R5	694–960 1695–2690	65°	15.8–16.8 17.0–18.3	2–12	2688	498	50.1	4.3-10 Female	5	Type 30	

* Antenna will be discontinued March 31, 2023

Specifications are subject to change. Please visit our website for the latest specifications.

Sector Antennas

Multiband Antennas

694–960 MHz/1427–2690 MHz

12 Ports (2L4H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
EGV4-65D-R6	694–862 880–960 1695–2690	65° 65° 65°	16.7 17.0 17.0–18.3	2–12	2688	350	43.5	4.3-10 Female	6	Type 33	
RRV4-85B-R6	694-960 1695-2690	85° 85°	14.3-14.8 15.9-17.9	2-14 2-12	1828	498	37.3	4.3-10 Female	6	Type 35	
RRV4-65A-R6	694–960 1695–2690	65° 65°	13.3–13.8 16.5–18.2	2–16 2–12	1499	498	33	4.3-10 Female	6	Type 35	
RRV4-65A-R6-V2	694–960 1695–2690	65° 65°	13.3–13.8 16.4–18.1	2–16 2–12	1499	498	33	4.3-10 Female	6	Type 35	
RRV4-65D-R6-V3	694–960 1695–2690	65° 65°	16.2–16.8 17.3–18.0	2–12	2688	498	49.5	4.3-10 Female	6	Type 34	
RRV4-65B-R6	698–960 1695–2690	65° 65°	14.9–15.3 16.0–16.4	2–14	1828	498	38	4.3-10 Female	6	Type 34	
RRV4-65C-R6	694–960 1695–2690	65° 65°	15.6–16.2 17.1–17.5	2–12	2438	498	46.3	4.3-10 Female	6	Type 34	
RRV4-65D-R6	694–960 1695–2690	65° 65°	15.8–16.8 17.0–17.7	2–12	2688	498	51.5	4.3-10 Female	6	Type 34	
RRV4-65B-R6H4	694–960 1695–2690	65° 65°	14.1–14.7 16.4–17.9	2–14 2–12	1848	498	36.5	4.3-10 Female	6	Type 35	
RRZZVV-65A-R6H4	694–960 1427–2690 1695–2690	65° 65° 65°	13.5–13.2 18.1–18.6 15.2–18.2	2–16 2–12 2–12	1499	498	31.8	4.3-10 Female	6	Type 35	
RRZZVV-65B-R6H4	694–960 1427–2690 1695–2690	65° 65° 65°	14.3–14.7 15.9–17.9 17.9–18.3	2–14 2–12 2–12	1848	498	37.5	4.3-10 Female	6	Type 35	
RRV4-6585B-R6H4	694-960 1695-2690	65° 85° 65° 85°	14.92-15.4 17-18.6	2-12	2180	498	40.5	4.3-10 Female	6	Type 35	
RRV4-65B-R6-PS (*)	698-960, 1695-2690	65° 65° 65° 65°	14.9-15.3 15.9-16.5	2-14	1859	498	37.2	4.3-10 Female	6	Type 34	

Specifications are subject to change. Please visit our website for the latest specifications.

Sector Antennas

Multiband Antennas

694–960 MHz/1427–2690 MHz

12 Ports (2L4H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRV4-65D-R6VB*	694–960 1695-2690	65° 65°	16.2-17.1 16.8-17.3	2-12	2580	469	45	4.3-10 Female	6	Type 34	
RRV4-65B-R6H4VB*	694–960 1695-2690	65° 65°	14.9-15.5 17.1-18	2-12	2000	499	34.2	4.3-10 Female	6	Type 35	
RRV4-65D-R6H4VB*	698–960 1710-2690	65° 65°	14.9-15.5 17.1-18	2-12	2580	499	43.2	4.3-10 Female	6	Type 35	
RRV4-65D-R6H4VB-V2*	698–960 1710-2690	65° 65°	14.9-15.5 17.1-18	2-12	2580	499	44	7/16 DIN Female	6	Type 35	

* Please contact CommScope Technical Support to learn more about this product.
(*) Antenna with APS-XT-GPS integrated
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Sector Antennas

Multiband Antennas

694–960 MHz/1427–2690 MHz

14 Ports (2L5H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
EGYHHTT-65A-R6	694–862 880–960 1427–1518 1695–2180 2490–2690	65°	14.3 14.6 15.7 16.5–16.7 16.8–16.9	2–17 2–12	1499	350	28.5	4.3-10 Female	6	Type 36	
EGYHHTT-65B-R6	694–862 880–960 1427–1518 1695–2180 2490–2690	65°	14.8 15.1 16.3 17.2–17.9 17.9–17.4	2–14 2–14 2–12 2–12	1828	350	33	4.3-10 Female	6	Type 36	
EGZHHTT-65A-R6	694–862 880–960 1427–2690 1695–2180 2490–2690	65°	13.7 13.8 15.2–17.3 16.6–17.4 17.2	2–17 2–17 2–12 2–12 2–12	1500	395	30	4.3-10 Female	6	Type 37	
EGZHHTT-65B-R6	694–862 880–960 1427–2690 1695–2180 2490–2690	65°	14.9 14.9 16.4–18.5 17.5–18.2 18.0	2–14 2–14 2–12 2–12 2–12	1980	395	39.5	4.3-10 Female	6	Type 37	

14 Ports (3L4H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
EGRV4-65D-R6	694–862 880–960 694–960 1695–2690	65°	15.7 16.2 16.3–17.0 17.2–18.3	2–12 2–12 2–12 2–12	2688	498	59.8	4.3-10 Female	4	Type 39	
EGRV4-65B-R7H4	694-862 880-960 694-960 1695–2690	65°	16.3 16.5 15.2-17.6 16.8-17.7	2-12	2100	395	46.5	4.3-10 Female	7	Type 39	

Specifications are subject to change. Please visit our website for the latest specifications.

Sector Antennas

Multiband Antennas

694–960 MHz/1427–2690 MHz

16 Ports (2L6H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRZZHHTT-65A-R6H4	694–960 1427–2690 1695–2180 2490–2690	65°	13.2–13.7 15.3–18.3 16.9 17.8	2–16 2–12 2–12 2–12	1499	498	33.9	4.3-10 Female	6	Type 42	
RRZZHHTT-65B-R6H4	694–960 1427–2690 1695–2180 2490–2690	65°	14.9–15.6 15.1–17.5 18.1 18.6	2–12	2100	498	42.5	4.3-10 Female	6	Type 42	
RRZZHHTT-65D-R6	694–960 1427–2690 1695–2180 2490–2690	65°	16.2–16.7 15.1–17.3 16.8–17.3 16.9	2–12	2688	498	53.2	4.3-10 Female	6	Type 42	
RRZZV4-65D-R6H4	694–960 1427–2690 1695–2690	65°	15.6–16.1 15.3–17.7 17.4–17.9	2–14 2–12 2–12	2688	498	53.5	4.3-10 Female	6	Type 43	
RRZZV4-65B-R8H4	694-960 1427-2690 1695-2690	65°	15-15.6 16.4-18.9 16.4-17	2-14 2-12 2-12	2100	498	42.9	4.3-10 Female	8	Type 43	
RRZZV4-65D-R8H4	694–960 1427-2690 1695-2690	65°	15.6-16.1 15.3-17.7 17.4 -17.9	2-14 2-12 2-12	2688	498	52.8	4.3-10 Female	8	Type 43	

* Please contact CommScope Technical Support to learn more about this product.
Specifications are subject to change. Please visit our website for the latest specifications.

Sector Antennas

Multiband Antennas

617–960 MHz/1427-2690 MHz

18 Ports (3L6H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
EGRZZV4-65D-R8V2 (replaces EGRZZV4-65D-R8)	694–862 880–960 694–960 1427–2690 1695–2690	65°	15.4 15.6 16.0 15.4–18.0 17.4 –18.1	2–14 2–12 2–12 2–12 2–12	2688	498	62.2	4.3-10 Female	8	Type 44	
FGKZZV4-65D-R9	617–862 880–960 617–960 1427–2690 1695–2690	65°	15.3 15.6 15.8 15.2–18.0 17.0–18.0	2–12	2688	498	64	4.3-10 Female	9	Type 69	

20 Ports (2L8H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRZZV6-65B-R10H4	694–960 1427–2690 1695–2690	65°	14.6-15.1 14.8-16.7 15.8-16.8	2-12	2100	498	42	4.3-10 Female	10	Type 61	
RRZZV6-65D-R10	694-960 1427-2690 1695–2690	65°	15.9-16.2 15.7- 18.1 17.2-18.0	2-14 2-12 2-12	2688	498	56.5	4.3-10 Female	10	Type 61	
RRZZHHTTVV65CR10V3* (Wireless Antenna)	694–960 1427–2690 1695-2180 2490-2690 1695-2690	65°	15.0-15.7 15.1-17.4 17.5 17.7 17-18	-	2250	498	44.8	4.3-10 Female	-	Type 113	
RRZZV6-65D-R10F**	694-960 1427-2690 1695-2690	65° 65° 65°	15.9-16.2 15.7- 18.1 17.2-18.0	2-14 2-12 2-12	2688	498	46.1	4.3-10 Female	10	Type 61	

26 Ports (3L10H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
EGRZZHHTTV4-65D-R8	694–862 880–960 694–960 1427–2690 1695–1880 2300–2690 1695–2690	65°	15.4 15.7 16.2 15.5 15.9 17.6 16.9–17.9	2–14 2–14 2–14 2–12 2–12 2–12 2–12	2688	498	67.6	4.3-10 Female	8	Type 45	

* Please contact CommScope Technical Support to learn more about this product. **Fixed mechanical tilt
Specifications are subject to change. Please visit our website for the latest specifications.

Sector Antennas

Multiband Antennas

694–960 MHz/1427–2690 MHz

30 Ports (3L12H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
EGRZZH4T4VV-65D-R8	694–862 880–960 694–960 1427–2690 1695–1880 2300–2690 1695–2690	65°	15.8 15.8 16.0 14.8 15.4 17.2–17.4 16.9–17.6	2–14 2–14 2–14 2–12 2–12 2–12 2–12	2688	498	68.7	4.3-10 Female	8	Type 46	
EGRZZH4T4VV65DR8V2	694–862 880–960 694–960 1427–2690 1695–1880 2300–2690 1695–2691	65°	15.2 15.4 16.1 14.8 16.2–17.1 17.8 16.9–17.6	2–14 2–14 2–14 2–12 2–12 2–12 2–12	2688	498	69.6	4.3-10 Female	8	Type 46	
EGRZZH4T4VV65DR10	694–862 880–960 694–960 1427–2690 1695–2180 2490–2690 1695–2690	65°	15.9 16 15.9–16 15–17.8 15.8–16.8 17.5 17.1–17.8	2–14 2–12 2–12 2–12 2–12 2–12 2–12	2688	498	67.3	4.3-10 Female	10	Type 46	

Specifications are subject to change. Please visit our website for the latest specifications.

High Gain Antennas

Multiband Antennas

2x 694–960 MHz/ 4x 1695 – 2690 MHz

8 Ports

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
R-33D-R1VB*	694–960	33	18.9-20	2-12	2600	579		4.3-10 Female	1	Type 1	
RVV-33B-R3	694–960 1695–2690	33°	17.7–18.7 20.0–21.5	2–13 2–12	1830	640	44.00	4.3-10 Female	3	Type 18	
RVV-45A-R3	694–960 1695–2690	45°	15.5–16.5 18.5–19.6	2–12 2–18	1399	457	26.10	4.3-10 Female	3	Type 18	
VV-33A-R2VB*	1695–2690	33	20.1-21.7	2-12	1498	498	19	4.3-10 Female	2	Type 6	
RRZZ-33D-R4	694-960 1427-2690	33°	16.9-18.6 19-21.2	2-14 2-12	2688	749	66	4.3-10 Female	4	Type 81	

* Please contact CommScope Technical Support to learn more about this product.
Specifications are subject to change. Please visit our website for the latest specifications.

3 Low Band Antenna

Multiband Antennas

694-960 MHz/1695-2690 MHz

16 Ports (3L5H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
R3ZV4-65B-R8	694-960 1427-2690 1695-2690	65°	13.3-14.8 16.4-18.2 16-17.1	2-12	2100	579	47.1	4.3-10 Female	8	Type 71	
RRCZV4-65B-R8	694-960 790-960 1427-2690 1695-2690	65°	14.4-14.5 13.1 16.4-18.2 16-16.4	2-12	2280	498	45.9	4.3-10 Female	8	Type 71	

18 Ports (3L4H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
R3V6-65B-R9	694-960 1695-2690	65° 65°	12.4-15.1 16.3-18.0	2-12	2100	579	48	4.3-10 Female	9	Type 106	
R3ZZV4-65B-R9*	694–960 1427–2690 1695-2690	65° 65° 65°	13.4-14.8 14.2-17.4 15.7-17.2	2-12	2100	579	50.1	4.3-10 Female	9	Type 106	

* Please contact CommScope Technical Support to learn more about this product.
Specifications are subject to change. Please visit our website for the latest specifications.

FDD Beamforming Antenna

Multiband Antennas

694-960 MHz/1427-2690 MHz

16 Ports (2L2H & 1BF FDD)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRZZV4-6590B-R5*	694-960 1427-1695 1695-2690	65° 65° 90°	14.8-15.4 15.1-18.2 15.4-21.0	2-12	2100	498	55	4.3-10 Female M-LOC	5	Type 107	
RRZZV4-6590D-R5*	694-960 1427-2690 1695-2690	65° 65° 90°	15.7-16 14.6-17.7 15.2-21.8	2-12	2688	498	56	4.3-10 Female MQ4/MQ5	5	Type 107	

32 Ports (2L2H & 1BF FDD & 2 BF TDD)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RRZZV4T4S4-6590DR7*	694-960 1427-2690 1695-2690 2300-2690 3300-3800	65° 65° 90° 90° 90°	15.7-16 14.1-17.2 14.4-21.1 14.8-20.2 15.3-20.3	2-12	2688	498	59.5	4.3-10 Female M-LOC	7	Type 119	

* Please contact CommScope Technical Support to learn more about this product.
Specifications are subject to change. Please visit our website for the latest specifications.

Stadium Antennas

Multiband Antennas

694–960 MHz/1695–2690 MHz/3300–3800 MHz

2 Ports (1L2H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
CNLPX3055F	790–960 1710–2170 2300–2690	50°	11.2 11.4 11.7	0	1354	853	37	7-16 DIN Female	0	Stadium Antenna	

10 Ports (2L4H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	Array Type	
RVVSS-50M-F	694–960 1695–2690 3300–3800	50°	10.9–11.6 11.0–11.3 11.2–11.9	0	835	1353	40	4.3-10 Female	0	Type 70	

* Please contact CommScope Technical Support to learn more about this product.
Specifications are subject to change. Please visit our website for the latest specifications.

Tri-sector Antennas

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	Total RF Connector Qty	RF Connector Type	RET Qty	Array Type	
O2P-2L-B1*	694-960	360°	10.4-11.4	2-14	1999	305	22.6	2	4.3-10 Female	1	Type 1	
3X-V65A-3XR	1710–2690	65°	17.3-18.9	0-12	1874	20	19	6	7-16 DIN Female	3	Type 3	
3X-RVV-65A-R9	694–960 1695-2690 1695-2690	65°	14.0-14.7 17.2-18.1 17.2-18.1	2-12	1446	370	34.4	24	4.3-10 Female	3	Type 78	
3X-S4-90M-R3	3300-4000	90°	15.2-21	2-12	880	370	21.9	24	M-LOC	3	Type 79	
3X-KZZSS-65A-R9*	617-960, 1427-2690, 3100-4200	65° 65° 65°	12.8-13.1 15.1-17.8 15.2-15.6	2-12	1446	370	40.4	30	4.3-10 Female M-LOC	9	Type 104	
3X-KVVSS-65A-R9*	617-960 1695-2690 3100-4200	65° 65° 90°	12.7-13.4 16.3-17 14.9-15.6	4-14 2-12	1446	370	36.2	30	4.3-10 Female M-LOC	9	Type 104	
3X-RRV4-65B-R12	694–960 1695-2690	65°	14.2-14.8 16.3-18.2	2-12	2030	580	73.6	36	4.3-10 Female	12	Type 98	
3X-KVVS4-65B-R12*	617-960, 1695-2690, 3300-3800	65° 65° 90°	15.1-15.8 16.5-17.5 15.5	2-12	2100	370	54	42	4.3-10 Female M-LOC	12	Type 100	
3X-KKV4S4-65B-R15*	617-960 1695-2690 3100-4200	65° 65° 90°	13.4-14.7 15-17.1 15.2-20.7	2-12	2100	580	105	60	4.3-10 Female M-LOC	9	Type 115	
3X-RRZZHHTTS4-BR24	694-960, 1427-2690, 1695-2180, 2490-2690, 3300-3800	65° 65° 65° 65° 90°	13.8-14.8 13.9-16.4 16.8 17.6 15.5	2-12	2100	580	106.5	72	4.3-10 Female M-LOC	24	Type 99	
3X-RRZZV4S4-65DR27*	694-960 1427-2690 1695-2690 3300-3800	65° 65° 65° 90°	15.5-16.5 15.4-18.1 16.6-17.8 15.3-20.8	2-12	2767	580	128.5	72	4.3-10 Female M-LOC	27	Type 108	
S4-90M-R1B-3XKIT*	3700-4200	90°	17.0-21.2	0-10	850	507	51	24	4.3-10 Female	3	Type 79	
KVVSS-65A-3XKIT**	617-960 1695-2690 3100-4200	65° 65° 65°	12.9-13.2 16.4-17.3 15.5-16.0	4-18 0-12 0-12	1219	301	107	30	4.3-10 Female	9	Type 116	

**Supports 600 MHz band
* Please contact CommScope Technical Support to learn more about this product.
Specifications are subject to change. Please visit our website for the latest specifications.

Extension Kit for 3-Sectors

Model Number	Description	Weight (kg)	
TRX58-35-O*	35cm shroud extension for use with tri-sector antennas (58cm diameter) to add additional height to the antenna installation.	43.77	
TRX58-80-O*	80cm shroud extension for use with tri-sector antennas (58cm diameter) to enable TMAs / filters to be housed below the antenna or to add additional height to the antenna installation	69.57	
TRX58-80-C*	80cm shroud extension for use with tri-sector antennas (58cm diameter) to enable TMAs / filters to be housed below the antenna or to add additional height to the antenna installation.	72.93	

* Please contact CommScope Technical Support to learn more about this product.
Specifications are subject to change. Please visit our website for the latest specifications.

Small Cell Antennas

Single Band Antennas

High Band 1695–2690 MHz

1 Port (1H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	
DB992HG28N-B	1710–2490	30°	16	0	311	311	1.3	N Female	0	

2 Ports (1H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	
V65S-C3-1XR	1695–2690	65°	13.1–14.1	0–20	600	170	3.8	4.3-10 Female	1	

4 Ports (2H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	
VV-65T-F-V2	1695-2690	65°	10.1-11.5	4	200	200	1.1	4.3-10 Male	0	
VV-65T-F-V3	1695-2690	65°	10.1-12.1	4	200	200	0.82	NEX10 Female	0	
SS-65T-F	3300-4200	65°	12.6-12.9	6	200	200	0.7	NEX10 Female	0	

6 Ports (3H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	
SSP-65T-F	3300-3800 5150-5925	65°	11.7 3.2	6	200	200	1.2	4.3-10 Male	0	
SSP-65T-F-V3	3300-3800 5150-5925	65°	12 2.8	6	200	200	0.8	NEX10 Female	0	
3X-V65S-C3-3XR	1695–2690	65°	13.3–14.3	0–20	596	Ø 200	7.4	4.3-10 Female	3	

Specifications are subject to change. Please visit our website for the latest specifications.

Small Cell Antennas

Multi Band Antennas

High Band 1695-2690/3300-4200/5150–5925 MHz

10 Ports (5H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	
VVSSP-360S-D	1695–2690 3300–4200 5150–5925	360°	8.1–8.2 8.6 3.7	0	618	305	10.6	4.3-10 Female	0	
VVSSP-360S-F	1695–2690 3400–3800 5150–5925	360°	6.6–8.2 4.9 5.1	7 0 0	600	200	7	4.3-10 Female	0	
VVSSP-45S-R1BV2	1695–2690 3300–4200 5150–5925	45°	14.3–15.3 10.3–10.9 3.9	2–10 7 4	610	407	8.7	4.3-10 Female	1	
VVSSP-65S-R1B	1695–2690 3400–3800 5150–5925	65°	11.6–12.8 9.8 4.2	2–10 7 4	600	Ø 200	5.9	4.3-10 Female	1	
VVSSP-65S-R1BV2	1695–2690 3400–3800 5150–5925	65°	12.6–13.5 10.4 4.6	2–10 4 4	600	305	6.9	4.3-10 Female	1	

Specifications are subject to change. Please visit our website for the latest specifications.

Small Cell Antennas

Multi Band Antennas

High Band 1695-2690/3300-4200/5150–5925 MHz

16 Ports (8H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	
V4SSPP-360S-F	1695–2690 3300–3800 5150–5925	360°	7.2–8.4 5.4 4.0	7 2 0	620	Ø 305	13.3	4.3-10 Female	0	

30 Ports (15H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	
V6S6P3-360S-F4	1695–2690 3400–3800 5150–5925	360°	7.0–7.8 6.1 4.0	4 0 0	610	Ø 370	19.3	4.3-10 Female	0	

Specifications are subject to change. Please visit our website for the latest specifications.

Small Cell Antennas

Multi Band Antennas

694-960/1695-2690/3300-4000 MHz

12 Ports (2L2H & 4x4 MIMO in 3.5GHz)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	
RRVVSS-360M-M	694-960 1695-2690 3300-4000	360°	6.6-6.8 7.4-9.2 9.8-10	6 3-12	1158	305	12.5	4.3-10 Female	0 (Manual Tilt)	

Specifications are subject to change. Please visit our website for the latest specifications.

Small Cell Antennas

Multiband Antennas

698-896 MHz/1695–2200 MHz

2 Ports (1L1H)

Model Number	Frequency (MHz)	HBW (°)	Gain (dBi)	Beam Tilt (°)	Length (mm)	Width (mm)	Weight (kg)	RF Connector Type	RET Qty	
NH360QM-D-2XR	698–896 1695–2200	360°	6.1–7.1 9.7–9.9	0–20 0–14	982	Ø 305	15.3	7-16 DIN Female	2	
NH360QM-DG-2XR	698–896 1695–2200	360°	6.1–7.1 9.7–9.9	0–20 0–14	982	Ø 305	15.3	4.1-9.5 Female	2	

Specifications are subject to change. Please visit our website for the latest specifications.

Antenna Enclosure Kits

CommScope antenna enclosure kits are an innovative solution for installing select 3.5 GHz passive or active massive MIMO antennas on top of suitable passive antennas for an integrated all-in-one appearance.

- Visual appearance as one unit can ease zoning approvals for 5G upgrades
- Flexible modularity enables swapping out antennas on site for capacity enhancements

Model Number	Description	Length (mm)	Width (mm)	Weight (kg)
AEKT-E1	Compatible with certain specific Ericsson mMIMO Active Antenna System Products (AAS)	1100	498	19.65
AEKT-N1	Compatible with a variety of Nokia n78 mMIMO Active Antennas (MAA)	1100	498	26.49
AEKT	Installation Kit for CommScope 3.5GHz Antenna (Types S4-90M-R1-V2, S4-90M-R1-V3 or S4-90M-R1-V4)	1100	498	19.17
AEKT-430	Compatible with CommScope 3.5GHz Antenna (S4-90M-R1-V2) Enclosure kit compatible specifically with antennas featuring CommScope's 430 x 197 mm (WxD) radome housing	1100	498	9.29
AEKT-430-N1	Compatible with a variety of Nokia n78 mMIMO Active Antennas (MAA) Enclosure kit compatible specifically with antennas featuring CommScope's 430 x 197 mm (WxD) radome housing	1100	498	9.29
AEKT-430-E1	Compatible with certain specific Ericsson Active Antenna System Products (AAS) Enclosure kit compatible specifically with antennas featuring CommScope's 430 x 197 mm (WxD) radome housing	1100	498	9.29

Specifications are subject to change. Please visit our website for the latest specifications.

Remote Electrical Downtilt (RET) Equipment

Actuators and Site Sharing Hubs

External devices for RET connectivity from base station antennas

Controllers

Portable RET controllers with option for wireless interface to smartphone or tablet

Smart Bias Tees

Top and bottom smart bias tees for piggybacking RET signals onto RF cables

Control Cables

RET control cables in lengths up to 100 meters and a variety of connector terminations

Splitters

2-way RET control cable splitter

Grounding Kits

Grounding kits for RET control cable junctions and equipment

Antenna Positioning System

CommScope's antenna positioning system (APS) is designed to send an alert when antenna alignment problems arise. You can now address issues quickly, often before customers even notice.

- Universally retrofits onto most existing antennas
- Flexible for re-use with antenna replacements
- AISG powered—no batteries or additional control equipment required

APS-XT

Antenna orientation and location sensing system

APS-XT-GPS

Antenna orientation and location sensing system with GPS signaling capability

	APS-XT	APS-XT-GPS
Azimuth	✓	✓
Mechanical Tilt	✓	✓
Mechanical Roll	✓	✓
Alarm Threshold	✓	✓
Longitude and Latitude	✓	✓
Altitude	✓	✓
TDD Synchronization Signal		✓

Mounting Hardware

CommScope base station antennas ship with standard mounting kits. Our portfolio includes additional special use mounting kits to assist in unique installations. Visit our website for more information on CommScope mounting hardware options.

Downtilt Mounting

For sector antennas with options for standard, wide, or long profiles

BSAMNT-3	Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.
BSAMNT-4	
BSAMNT-M4	Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.
BSAMNT-2F	Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.
BSAMNT-3F	

Pipe Mounting

For sector and omni antennas

PM-SC4-B	Universal Open Face Pipe Mount Kit for 4-1/2 in OD pipe

Side-by-Side Mounting

For mounting 2 or 3 antennas side-by-side

BSAMNT-SBS-2-2	Side-By-Side Mounting Kit to mount two antennas on a pipe with 2.375 - 4.5 inch (60 – 115 mm) diameter
BSAMNT-SBS-2-3	

Mounting Hardware

Cluster Mounting

For mounting 3 antennas on a pole

TS-MNT-2	Tri-sector Mounting Kit. Used for mounting three antennas to a single pipe or stand. Kit contains fixed tilt mounting brackets that work with 3.5-6.5 in (89-165 mm) outer diameter round members.
TS-MNT-3	Lightweight Tri-sector Mounting Kit. Used for mounting three antennas to a single pipe or stand. Kit contains fixed tilt mounting brackets that work with 3.5-6.625 inch (89-168 mm) outer diameter round members
800PIPEKIT-X	Cluster Mounting Kit. Use for mounting multiple 498mm wide panel antennas to a single pole or stand. One kit mounts up to three antennas. Removeable spacers allow this kit to fit on poles measuring 89mm (3.5"), 115mm (4.5") or 140mm (5.5") OD
800PIPEKIT-XL	Cluster Mounting Kit. Use for mounting multiple 498mm wide panel antennas to a single pole or stand. One kit mounts up to three antennas. Removeable spacers allow this kit to fit on poles measuring 89mm (3.5"), 115mm (4.5") or 140mm (5.5") OD
900PIPEKIT-XL	3 sectors bracket : For 430mm wide and for A, B and D lenght

Offset and Side Mounting

For offsetting the antenna from the pole

BSAMNT-OFFSET	Forward Offset Pipe Mounting Kit for 4.5 in (114.3 mm) OD round members

Small Cell Mounting

For mounting small cell antennas

MC-MNT-TS1	Small Cell mounting kit. Capability of mounting round antenna types on top of a pole, on the side of a pole and on the side of a building.
MC-MNT-SIDE-J3	Mounting systems for cylindrical pipe installations (86-195mm pipe diameter).
MC-MNTTOP-305M	Heavyweight Small Cell mounting kit with shroud. Capability of mounting 1.2m (4ft) long canister antennas with 305mm (12") diameter on the top of a pole.
MC-MNT-TOP-370	Heavyweight Small Cell mounting kit with shroud. Capability of mounting round antenna types on the top of a pole. For installations of 370mm (14.6") canister small cell antennas on top of poles with diameter from 165 to 216mm (6.5" to 8.5")

MC-MNT-TOP-2	Small Cell mounting kit with shroud. Capability of mounting round antenna types on the top of a pole. For installations of 12 inch canister small cell antennas on top of poles with diameter from 160 to 216mm (6.3" to 8.5")

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