Base Station Antennas for Sustainable Outdoor Wireless Networks

Product selection guide for Europe, Middle East & Africa

January 2024

COMMSCOPE®

Grow your network and protect the planet. **Yes, you can.**

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.

To accomplish both, outdoor wireless networks must continue to expand and evolve—simplifying 5G rollouts, adding network capacity, expanding capabilities. but not at the expense of the environment. The decisions network operators make today will go a long way to determining our quality of life tomorrow. The stakes are high and CommScope Outdoor Wireless Networks (OWN) is ready.

Simplifying and innovating everywhere it matters

CommScope OWN is one of four CommScope-operated business segments. As an industry-leading developer of RF path solutions for mobile networks, customers look to us for the future-ready, sustainable solutions that help them simplify their networks and adapt to the changing needs of a complex, hyperconnected world. We respond with an end-to-end portfolio that covers nearly every aspect of the macro cellular and small cell RF path. We make everything but the radio; and every cable, component and connector delivers the CommScope quality and reliability our customers have come to expect. Learn more

Leading the way to a sustainable future

There is no single solution to climate change or digita inequality, and no single company can solve these problems alone. That's why CommScope OWN assists our MNO customers and supply chain partners in reducing their environmental impact at every stage. We have formalized our commitment to sustain-ability and a circular economy into our Green and Sustainable Agenda. It is based on four pillars that span the lifecycle of our products: design, manufacturing, packaging/logistics and solution lifecycles.

Our commitment to sustainability goes beyond plans on a page. For example, our Sustainability Value Score™ initiative provides MNOs transparent, data-driven information on the ecological costs and benefits of their buying decisions.

SVScore quantifies the sustainability of our outdoor antennas, one of our core product offerings and a major factor in determining the carbon footprint of any MNO network. The SVScore label on every CommScope antenna enables customers to quickly assess its sustainability in terms of radiation efficiency, spatial efficiency, materials usage and transportation efficiency. It provides our customers and partners with the transparent, data-based information they need to meet their own sustainability targets. Learn more

Ranked on a scale from 1 to 10, with 10 being the highest possible value, the composite score at the top is the average of the four sub-scores. It is an expression of the overall CO_2 release prevented by the various manufacturing, performance, materials and logistics that go into making our antennas.

Improving network performance and sustainability—a viable option

CommScope OWN is trusted by MNOs around the world because we build solutions that answer their RF path challenges—all their challenges. It's not always about building bigger and stronger. Sometimes it's about building smaller and smarter.

Right sizing the RAN

Many new sites use 32T32R or 64T64R radios with mMIMO active antennas. However, data shows that this high-capacity configuration is necessary for only 20 to 30 percent of all sites. This means most sites—particularly those serving low- and medium-capacity areas—are overprovisioned. As a result, these sites are responsible for dramatically higher power consumption, environmental impact and operating cost than are needed to support their traffic loads.

30%

less power use and CO2 release than 32T32R

- Up to 2,339 kWh energy savings per year
- As much as 535 kg less CO2 released

50%

less power use and CO_2 release than 64T64R

- Up to 5,000 kWh energy savings per year
- As much as 1,600 kg less CO2 released

Our complete portfolio of 8T8R antennas helps MNOs right size their medium—and low-capacity sites—saving power and enabling more sustainable network growth. Learn more

High efficiency antennas

CommScope's innovative technologies do more than help right-size your RAN. Consider our next-generation high efficiency base station antennas powered by CommScope's SEED™ technology. The streamlined, high-efficiency design combines low-loss cabling, advanced phase-shifter technology and a innovative feed network and backplane for improved radiation efficiency and enhanced operational and environmental benefits. It enables MNOs to fill key coverage gaps—such as at the cell edge and inside buildings—or reduce energy consumption by up to 15%. As a result, network operators can improve their network's overall operating efficiency and environmental performance, and take another step towards net zero networks.

We're also leveraging advances in antenna pattern modeling to help MNOs fine tune their network's performance. Today's metrics for BSA characterization are based on 2D patterns, mainly azimuth and elevation. New 3D metrics can model additional aspects like sector efficiency and A1 10dB to better reflect overall antenna pattern efficiency. CommScope OWN incorporates these advanced capabilities into our antenna design and engineering, as we seek to continually improve coverage and capacity, the building blocks of network performance.

Eco-friendly materials and mounting solutions

CommScope OWN is constantly exploring new innovative materials such as glass fiber reinforced polypropylene (GFRPP) which is used to replace less eco-friendly fiber in our radomes. GFRPP is 100% recyclable and 20% lighter than conventional radome materials while enabling better RF transparency and comparable mechanical properties such as UV and heat resistance. By the end of 2023, 44-54% of our antennas will use GFRPP.

We're also advancing the science of antenna mounting systems, redesigning our fixed tilt brackets to be smaller and 53% lighter than variable tilt brackets. More than reducing tower loading, eliminating downtilt brackets also helps reduce passive intermodulation (PIM) and accelerate installation.

Mosaic®: The of art combining active and passive technologies

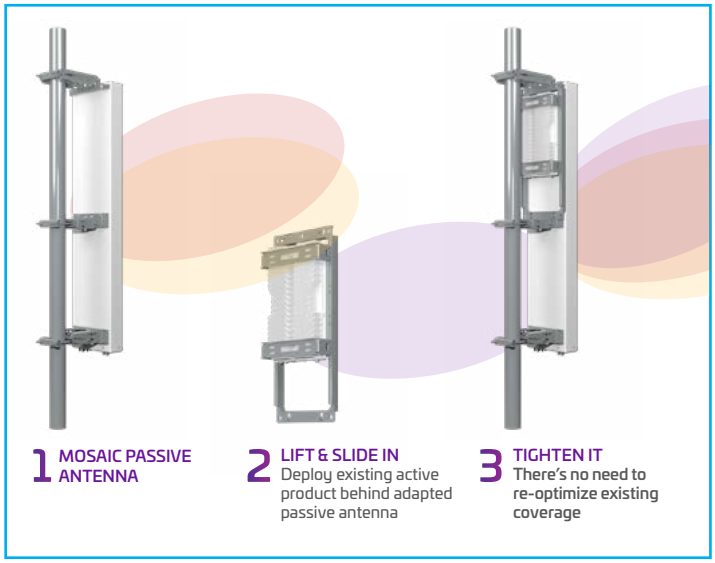
Even as 5G rollouts continue to increase, MNOs can't afford to walk away from their still-profitable 4G networks. The problem is how to upgrade 4G cell sites to add 5G capabilities—without impacting link performance, overloading towers, increasing antenna counts, compounding network complexity or increasing the equipment footprint. Enter Mosaic.

The Mosaic platform

CommScope's Mosaic is a modular, compact and upgradable antenna platform for co-siting active 5G and passive 4G capabilities without impacting signal performance, adding antennas, or increasing your equipment footprint. The solution's unique benefits lie in its ability to support passive 4G and active 5G antennas on the same frame without impeding either signal. Learn more

How it works

Mosaic's customizable 4G passive antenna is designed with a special "RF window that's completely reflective at the 4G frequencies and totally transparent at 5G frequencies. To add 5G capabilities to an existing 4G antenna, simply slide the new active antenna into the frame, directly behind the RF window and tighten in place. There is no need to re-optimize the existing 4G coverage.



Unique performance advantages

The Mosaic platform makes it simple, efficient and fast to deploy 5G while maintaining legacy network coverage and footprint. It covers every angle, opens every opportunity and checks every box:

Simplified design, deployment and upgrades: Mosaic agile, plug-and-play design enables you to deploy active, passive or combined solutions as needed, where needed, quickly and without having to re-zone the site—all in a form factor no larger than existing 4G-only antennas.

More flexible network planning: Mosaic is upgradable and customizable for band, length, port count and more, and supports all legacy sub-6 GHz bands. Its radio-agnostic design lets you choose the best radio for the job, including support for Open RAN.

Reduced TCO: Mosaic is easy to install, requires no re-optimization of legacy 4G coverage, reduces PIM and avoids additional tower lease or reinforcement expenses. Plus, it reduces incremental site maintenance and troubleshooting costs by managing PIM effectively.

Sustainable? Of course.

By consolidating passive and active antennas on a single streamlined frame and reducing the amount of site reinforcement needed, Mosaic decreases the network's material requirements and their associated environmental impacts across the supply chain. The innovative design also enables active and passive antennas to be integrated or disaggregated. When deployed as a disaggregated solution—discrete active and passive antennas operating independently—the active antenna can be replaced or upgraded without replacing the passive antenna or frame. This extends the lifecycle of these components, further reducing the network's overall environmental impact.

A best-fit antenna solution for any application

Antennas are core asset of the radio access network and from its RF environment and capacity requirements to its upgrade path, zoning issues and coverage patterns, your network is unique. That's why CommScope has devoted more than half a century to building an antenna portfolio with 500+ BSA products offered, 100 of which released last year.

Our comprehensive range of macro cell solutions makes the construction and updating of macro cell sites faster and more economical than ever before. In dynamic, densely populated urban areas our customizable small cell solutions help you densify coverage, expand capacity and improve reliability while blending into the environment. Meanwhile, CommScope Metro Cell solutions provide the perfect blend of flexibility, performance and aesthetics.

Macro site solutions: built to perform, simplify and sustain

Our 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.

Outdoor small cell solutions: compact, concealed and capable

To enable to speed permitting, install easily and reduce re-zoning during upgrades. With support for legacy low- and mid-bands, 3.5 GHz applications, 4x MIMO and carrier aggregation, they enable you to expand coverage and improve performance as your needs change. Learn more.

Integrated Metro Cell solutions: fully integrated, high performance

Deployable as monopoles, integrated lumieres, strand-mounted solutions and more they conceal small cell assemblies, connectivity and radios from nearly any OEM. Each can be customized—port counts/types, pole and concealment options, multiband frequencies, and pattern/tilt options—for a best-fit, site-specific solution. Learn more.

Performance across the portfolio

Regardless of application, configuration or type, every CommScope antenna is engineered and tested to meet some of the industry's most stringent standards for performance and reliability. Tests include radiation efficiency, coverage, SINR, intercell interference, pattern dispersion and PIM, as well as a range of physical testing. The result? Antennas that perform like no others.

Engineered for today, designed for tomorrow

When it comes to what's next, CommScope has your back. Every OWN antenna solution has the future baked in, with the upgrade options, features and band support that make sense for you. Even better, our sustainable approach to antenna development helps you lower network energy use and consolidate network elements while minimizing waste and impact across the supply chain.

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.

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

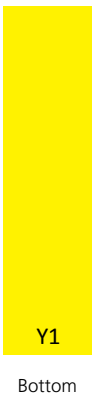
Configuration Type 1

B-65B-R1VB
DB654DG65A-C
LDX-3319DS-VTM
LDX-3319DS-A1M
LDX-9014DS-VTM
RPX310B-T2H
R-33D-R1VB
R-65B-R1VB
R-65C-R1VB
R-65C-R1VB-V4
O2P-2L-B1

Configuration Type 2

HBX-9016DS-VTM

Configuration Type 3



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

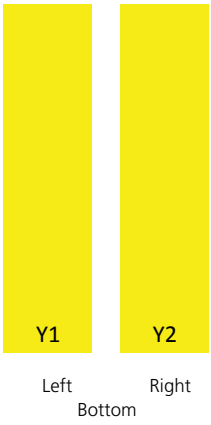
Configuration Type 4

RR-65B-R2
RR-65D-R2N43
RR-85D-R2N43
RR-65A-R2VB
RR-65B-R2VB
RR-65C-R2VB-V2
RR-65C-R2VB-V3

Configuration Type 5

HBXX-3319DS-VTM

Configuration Type 6

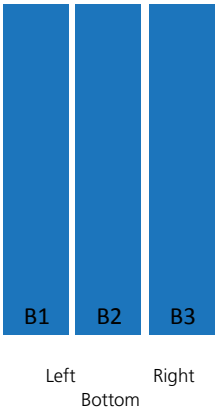


VV-33A-R2VB
VV-65A-R1B
VV-65A-R2
VV-65A-R2-V2
VV-65A-R2VB-V2
\VV-65B-R2

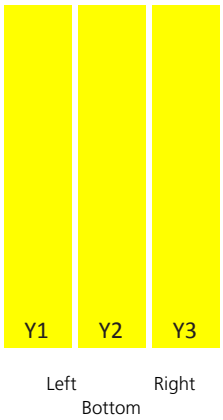
Configuration Type 7

SSPX310R-V2

Configuration Type 8



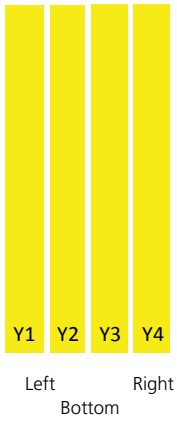
Configuration Type 9



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.

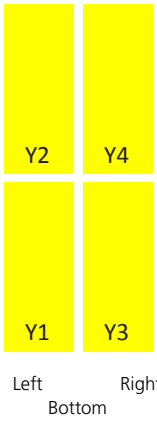
Antenna Array Symbols

Configuration Type 10

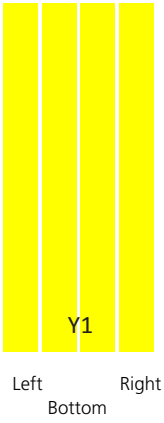


ZZVV-65A-R4N43

Configuration Type 11



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

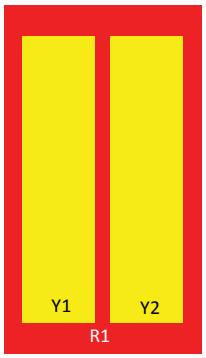
Configuration Type 14

Configuration Type 15

Configuration Type 16

Configuration Type 17

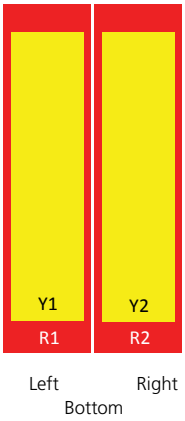
Configuration Type 18



RVV-33B-R3
RVV-45A-R3
RVV-65A-R3
RVV65B-C3-3XR
RVV-65D-R3
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

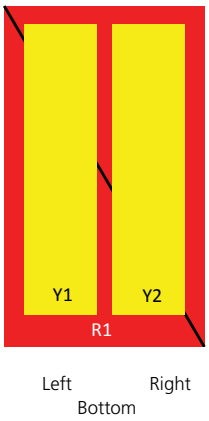
Antenna Array Symbols

Configuration Type 19



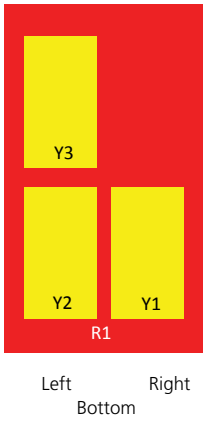
RRVV-65B-R4-V2
RRVV-65D-R4
RRZZ-65A-R4
RRZZ-65B-R4
RRVV-85D-R4N43
RRVV-65D-R4VB
RRVV-65B-R4-V4
RRVV-65A-R4VB
RRVV-65B-R4VB-V2

Configuration Type 20



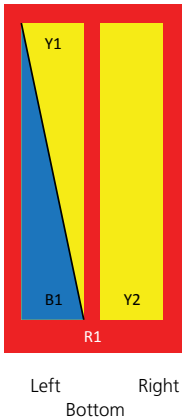
EGVV65A-FL-C3-4XR
EGVV65B-FL-C3-4XR

Configuration Type 21

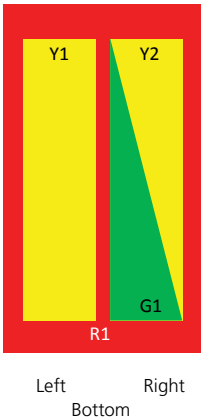


RV3-65D-R4-V2
RV3-65D-R4-V3

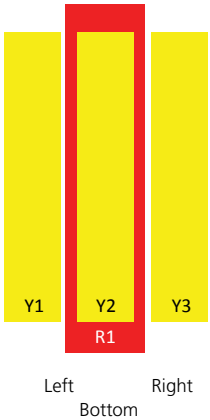
Configuration Type 22



Configuration Type 23



Configuration Type 24

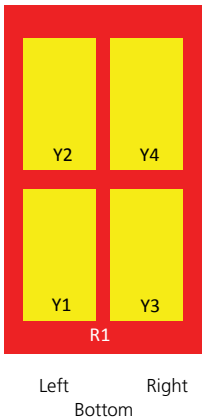


RZVV-65A-R4-V3
RZVV-65A-R4-V4

Configuration Type 25

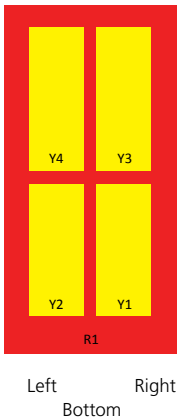
RHHTT-65A-R4-V2

Configuration Type 26



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

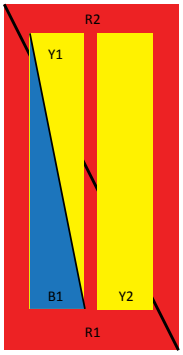
Configuration Type 27



RV4PX306R

Antenna Array Symbols

Configuration Type 28



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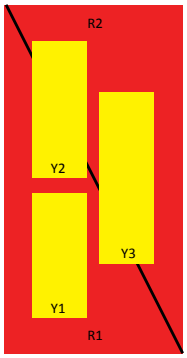
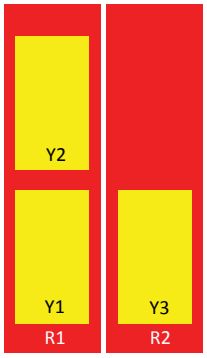
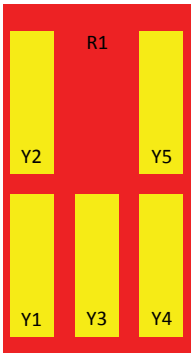


Configuration Type 30



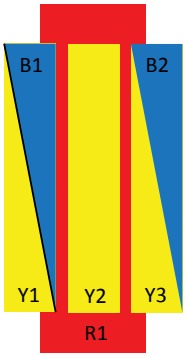
RRV3-65D-R5

Configuration Type 31



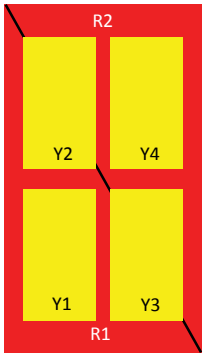
RZV4-65D-R6
RZV4-65D-R6-V2

Configuration Type 32



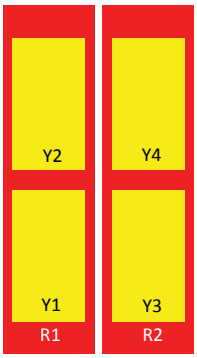
RVHHTT-65A-R5

Configuration Type 33



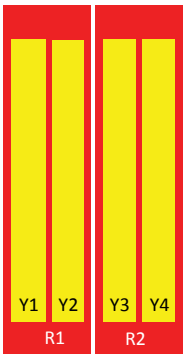
EGV4-65D-R6

Configuration Type 34



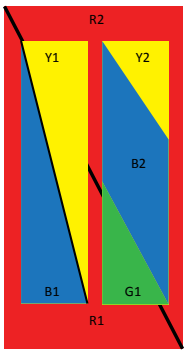
RRV4-65B-R6-PS
RRV4-65D-R6-V3
RRV4-65B-R6
RRV4-65C-R6
RRV4-65D-R6
RRV4-65D-R6VB-V6

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
RRZ4-6590B-R6NV3
RRZZVV-65AR6NV1
RRZZVV-65B-R6H4
RRZZVV-65B-R6N43
RRZZVV-65BR6NV1
RRZZVV-65B-R6NV3
RRZZVV-65D-R6N43
RRV4-65B-R6H4VB

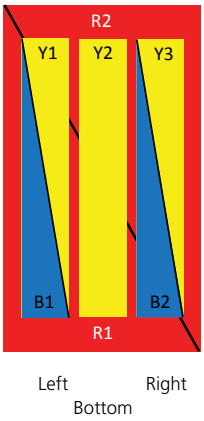
Configuration Type 36



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

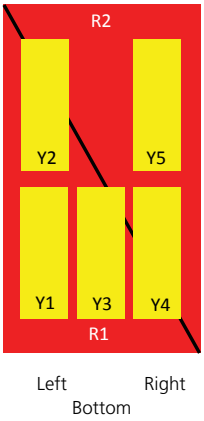
Antenna Array Symbols

Configuration Type 37

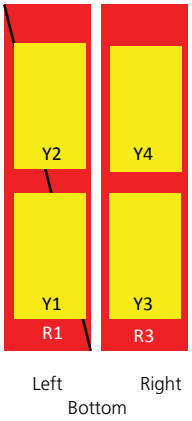


EGZHHTT-65A-R6
EGZHHTT-65B-R6

Configuration Type 38

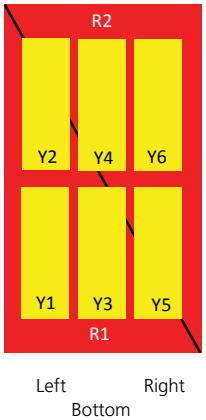


Configuration Type 39



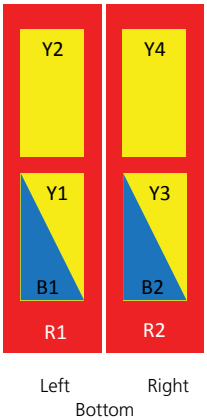
EGRV4-65D-R6

Configuration Type 40

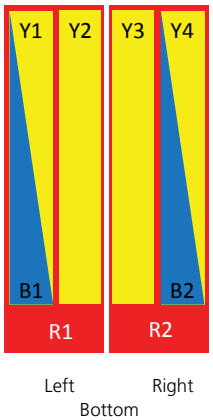


EGZV5-65D-R6-V2

Configuration Type 41

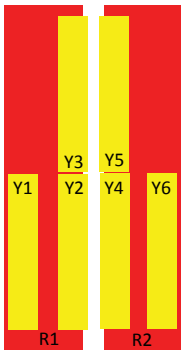


Configuration Type 42



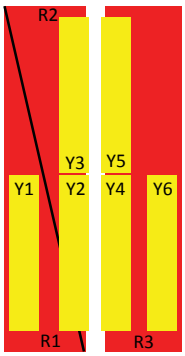
RRZZHHTT-65A-R6H4
RRZZHHTT-65B-R6H4
RRZZHHTT-65D-R6

Configuration Type 43

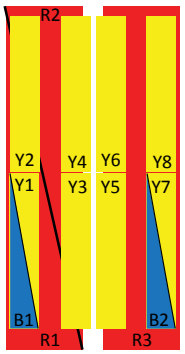


RRZZV4-65B-R8H4
RRZZV4-65D-R6H4
RRZZV4-65D-R8H4

Configuration Type 44



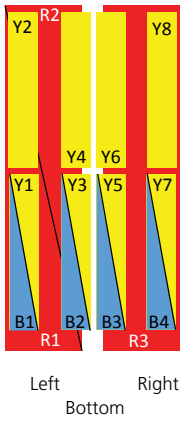
Configuration Type 45



EGRZZHHTTV4-65D-R8

Antenna Array Symbols

Configuration Type 46



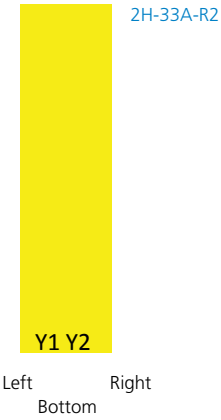
EGRZZH4T4VV-65D-R8
EGRZZH4T4VV65DR8V2
EGRZZH4T4VV65DR10

Configuration Type 47

2UPX210B-T2

Configuration Type 48

Configuration Type 49

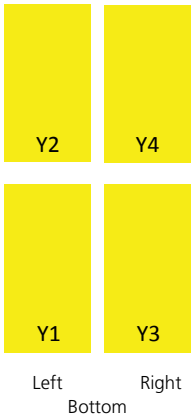


2H-33A-R2

Configuration Type 50

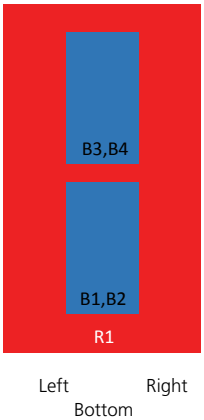
2HH-38A-R4-V2

Configuration Type 51



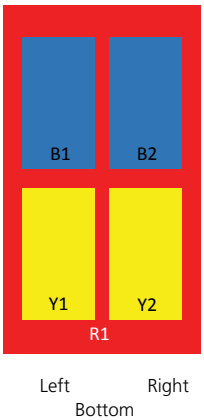
2VV-33C-R4-V4
2VV-33C-R4-V6

Configuration Type 52



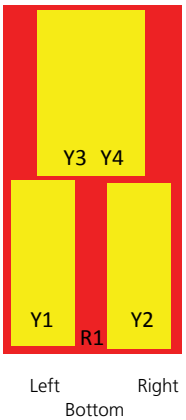
R2HH-6533A-R5

Configuration Type 53



CVV2NPX308.208R

Configuration Type 54



RVV2H-6533D-R5

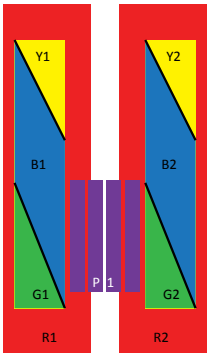
Configuration Type 55

RR2VV-6533D-R6

Antenna Array Symbols

Configuration Type 56

RRYYHHTTS4-65A-R7



Left Right
Bottom

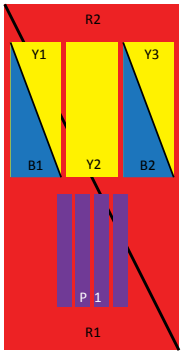
Configuration Type 57

EGR-65D-R3N43

Left Right
Bottom

Configuration Type 58

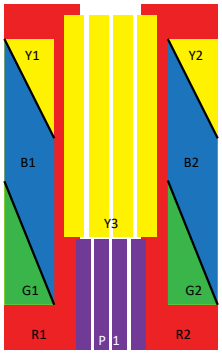
EGZHHTTS4-65B-R7V2



Left Right
Bottom

Configuration Type 59

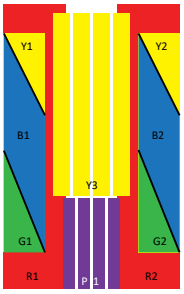
RRYYHHTTT4S4-65BR8



Left Right
Bottom

Configuration Type 60

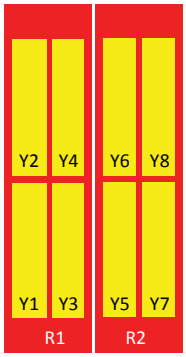
EGZHHTTS4-65B-R7



Left Right
Bottom

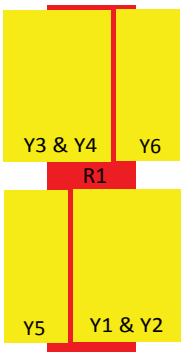
Configuration Type 61

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



Left Right
Bottom

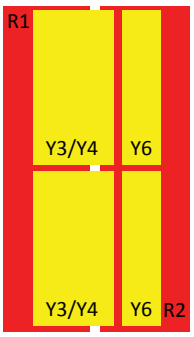
Configuration Type 62



Left Right
Bottom

Configuration Type 63

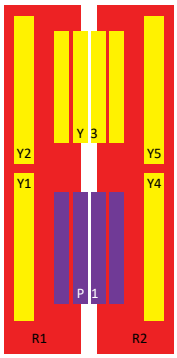
RRVV2HH-6533B-R6



Left Right
Bottom

Configuration Type 64

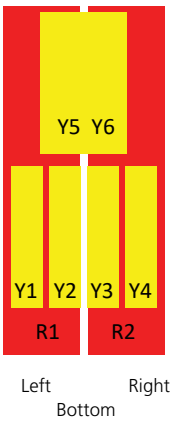
RRZZVVT4S4-65D-R8
RRZZVVT4S4-65B-R8



Left Right
Bottom

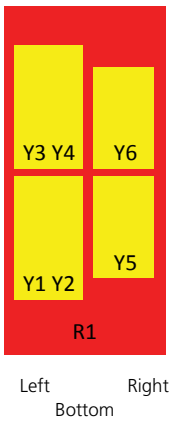
Antenna Array Symbols

Configuration Type 65



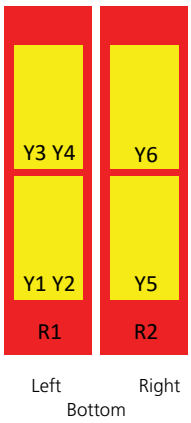
RRV42H-6533D-R8

Configuration Type 67



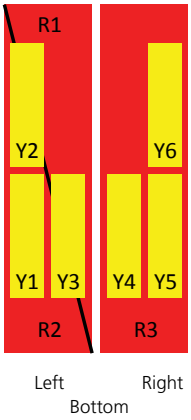
RVV2VV-6533D-R7

Configuration Type 68



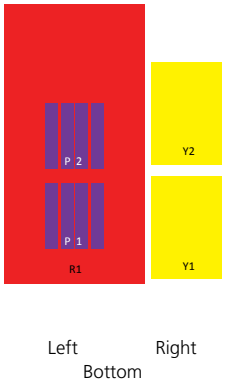
RRZZ2VV-6533B-R8

Configuration Type 69



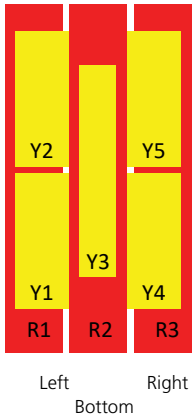
FGKZZV4-65D-R9

Configuration Type 70



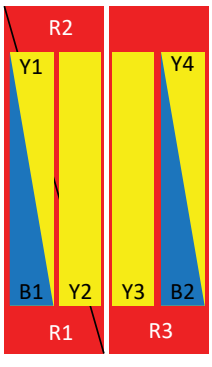
RVVSS-50M-F

Configuration Type 71



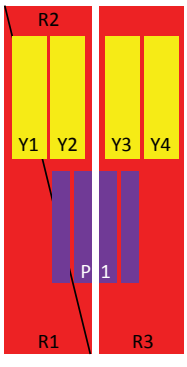
R3ZV4-65B-R8
RRCZV4-65B-R8

Configuration Type 72



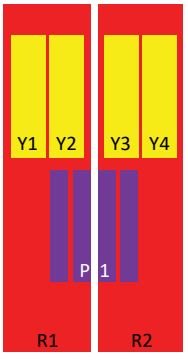
EGRZZHHTT-65BR8N43
EGRZZHHTT-65A-R8

Configuration Type 73



EGRV4Q4-65D-R8

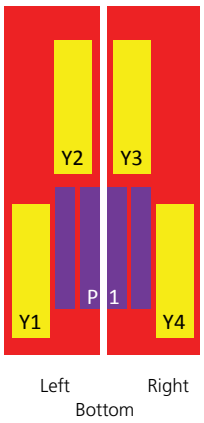
Configuration Type 74



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

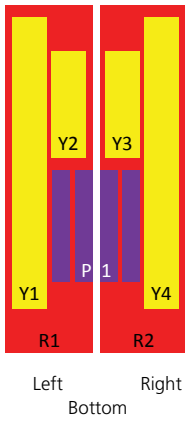
Antenna Array Symbols

Configuration Type 75



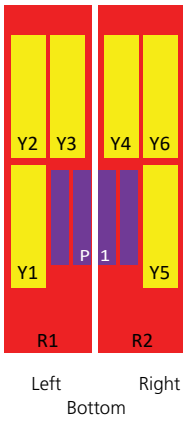
RRZZVVS4-65D-R7N43
RRZZVVS4-65DR7NV4

Configuration Type 76



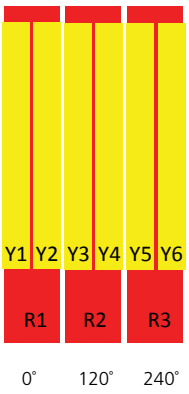
RRZZVVS4-65BR7NV4
RRZZVVS4-65B-R7N43

Configuration Type 77



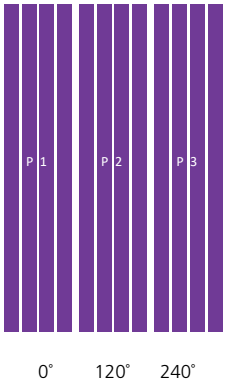
RRZZV4S4-65D-R9N43
RRZZV4S4-65DR9NV4

Configuration Type 78



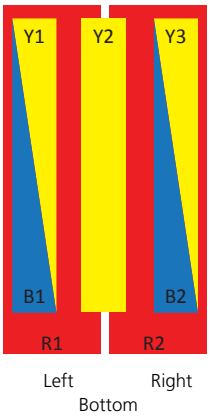
3X-RVV-65A-R9

Configuration Type 79



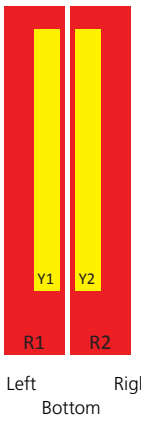
3X-S4-90M-R3
S4-90M-R1B-3XKIT

Configuration Type 80



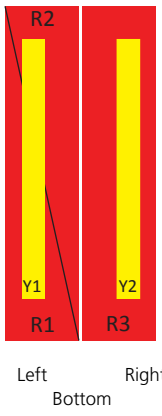
RRZHHTT-65A-R6N39

Configuration Type 81



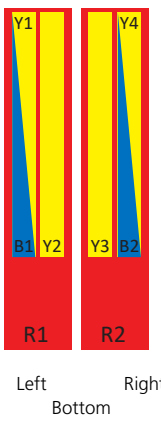
RRZZ-33D-R4
RRZZ-65B-R4N43
RRZZ-65B-R4N43V1
RRZZ-65A-R4N39
RRZZ-65B-R4N39
RRZZ-65D-R4N43V1
RRZZ-65D-R4N43V2
RRZZ-65B-R4N39-V1
RRZZVV-65A-R6N43V2
RRZZVV-65D-R6NV3

Configuration Type 82



EGRZV-65D-R5N43

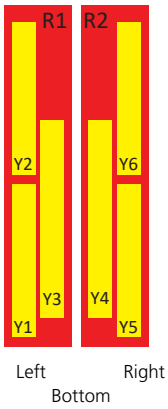
Configuration Type 84



RRZZHHTT-65A-R7N43
RRZZHHTT-65B-R7N43
RRZZHHTT-65BR7N43F
RRZZHHTT-65AR7N43F
RRZZHHTT-65B-R8NV3
RRZZVV-65B-R8NV3D

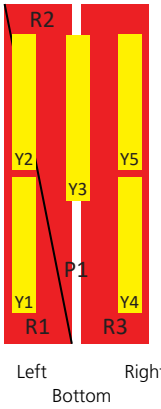
Antenna Array Symbols

Configuration Type 85



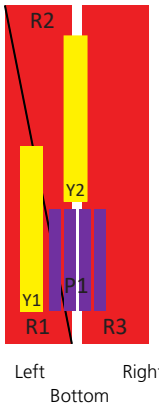
RRZZV4-65D-R8N43
RRZZV4-65D-R8NV1
RRZZV4-65D-R8NV3

Configuration Type 86



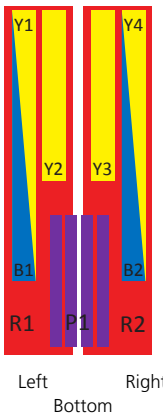
EGRZV4-65D-R8N43

Configuration Type 87



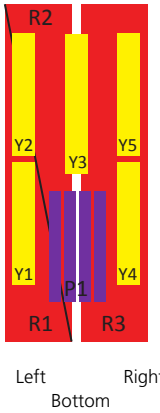
EGRZVS4-65D-R6N43

Configuration Type 88



RRZZHHTTS4-65B-R8N

Configuration Type 89



EGRZV4S4-65D-R9N43

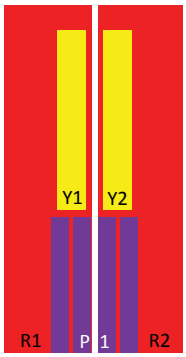
Configuration Type 91

RVVT4-65D-R4

Configuration Type 92

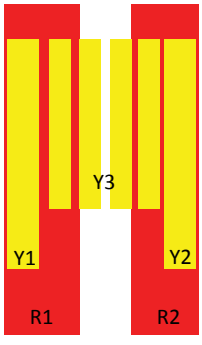
T4S4-90A-R2
T4S4-90A-R2-V4
T4S4-90A-R2-V3

Configuration Type 93



RRZZS4-65D-R5

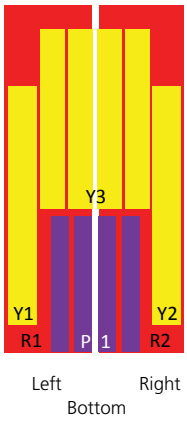
Configuration Type 94



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

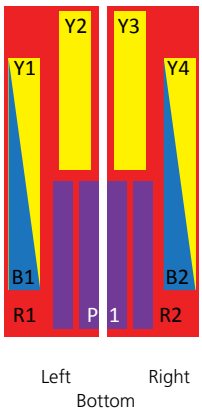
Antenna Array Symbols

Configuration Type 95



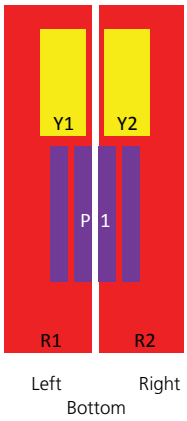
RRZZT4S4-65B-R6
RRVVT4S4-65D-R6
RRZZT4S4-65B-R6V4

Configuration Type 96



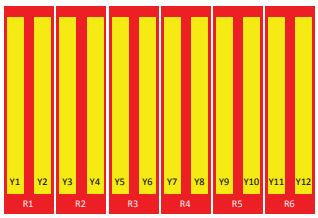
RRZZHHTTS4-65B-R7

Configuration Type 97



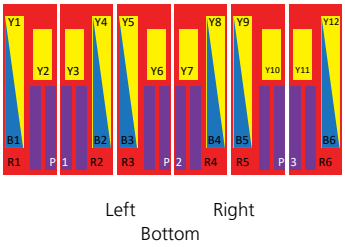
RRVVQ4-65D-R5
RRVVQ4-65D-R5V4

Configuration Type 98



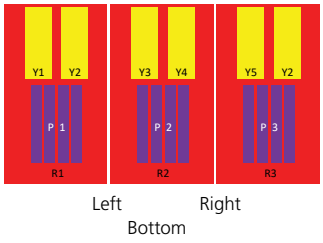
3X-RRV4-65B-R12

Configuration Type 99



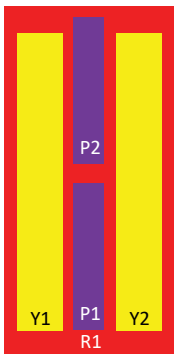
3X-RRZZHHTTS4-BR24

Configuration Type 100



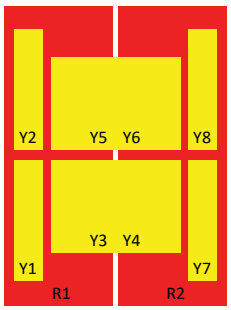
3X-RVVS4-65B-R12

Configuration Type 102



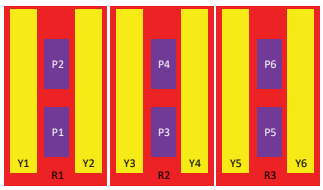
KVVSS-65A-R3

Configuration Type 103



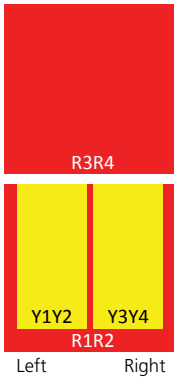
RRV42VV-6533D-R10

Configuration Type 104



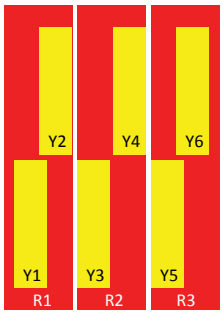
3X-KZZSS-65A-R9
3X-KVVSS-65A-R9

Configuration Type 105



2RR2VV-33C-R4

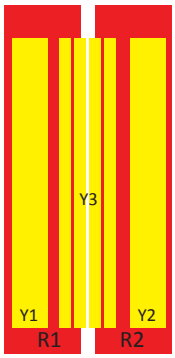
Configuration Type 106



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

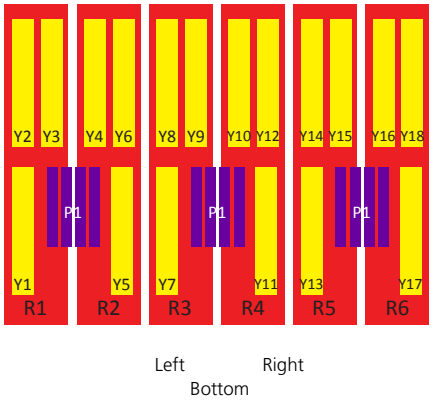
Antenna Array Symbols

Configuration Type 107



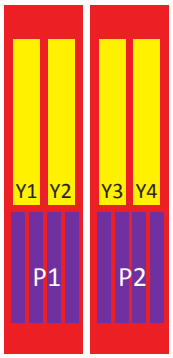
RRZZV4-6590B-R5V3
RRZZV4-6590D-R5V4

Configuration Type 108



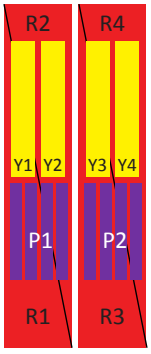
3X-RRZZV4S4-65DR27

Configuration Type 109



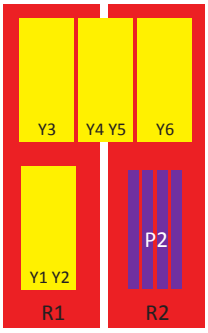
RRZZVVQ4Q4-65BR8V4
RRZZVVQ4Q4-65DR8V4
RRZZVVQ4Q4-65DR8

Configuration Type 110



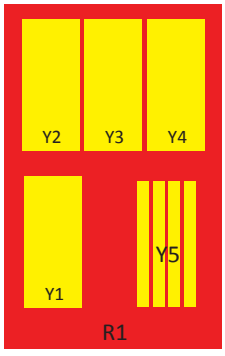
EEGGV4Q4Q465DR10

Configuration Type 111



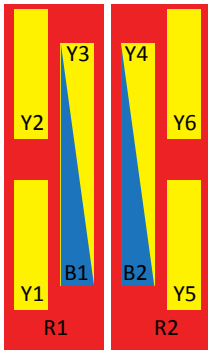
RRVV2VVQ4-6533D-R9

Configuration Type 112



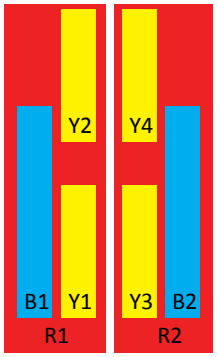
RV4T4-65D-R6VB

Configuration Type 113



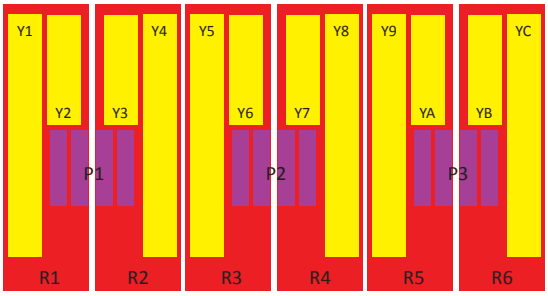
RRZZHHTTVV65CR10V3

Configuration Type 114



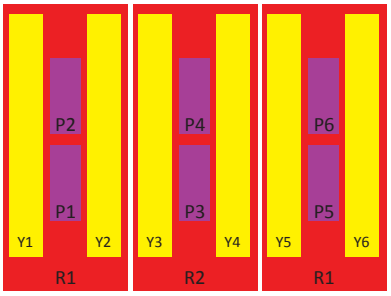
RRZZVV-65D-R8N43D

Configuration Type 115



3X-KKV4S4-65B-R15

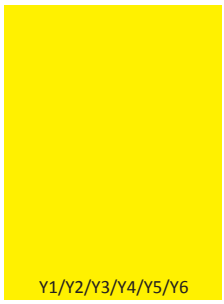
Configuration Type 116



KVVSS-65A-3XKIT

Antenna Array Symbols

Configuration Type 117

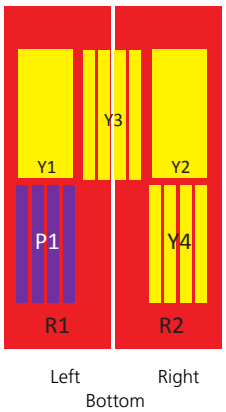


4V-15A-R4
6V-10M-F6

Configuration Type 118

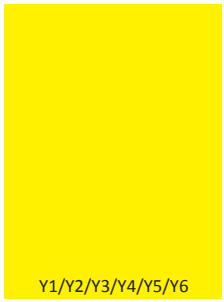
6VV-10A-F6

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

Table of Contents

Macro Antennas

Beamforming Antennas

Multibeam Antennas

Omni Antennas

Sector Antennas

Table of Contents

News

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

New products

- TS-MNT-TOP-370*: Pipe Mounting KIT with shroud, capability of mounting 37cm diameter round antennas (with trident mounting bracket, max length 2.1m, max weight 56kg) on the top of a pole with diameter from Ø150 to Ø273mm
- MC-MNT-SIDE-370*: Mounting Kit for Small Cell Antenna 370mm diameter
- RRZZVV-65A-R6N43V2*: 12-port sector antenna, 4 x 694–960, 4 x 1427–2690 and 4 x 1695-2690 MHz, 65° HPBW, 6x RET
- B-65B-R1VB*: 2-port sector antenna, 2x 380-470MHz, 65° HPBW, 1xRET
- RRZZV4-65D-R8NV3* (Wireless Antenna): 16-port sector antenna, 4x 694-960, 4x 1427-2690 and 8x 1695-2690 MHz, 65° HPBW, 8x RET
- RR-65C-R2VB-V3*: 4-port sector antenna, 4x 694–960 MHz, 65° HPBW, 2x RET
- RRZZVVQ4Q4-65BR8V4* (Wireless Antenna): 28-port sector antenna,4 x 694-960 MHz (R1,R2), 4 x 1695-2690 MHz (Y1,Y4) and 4 x 1427-2690 MHz (Y2,Y3) , 65° HPBW, 16 x 2300-3800 MHz (P1,P2), 90° HPBW, 8 x RET
- VS-65T-FVB*: 4-port small cell antenna, 2x 1695–2690 MHz, 2x 3300-3800 MHz, 65° HPBW, fixed electrical tilt
- RRZZVV-65D-R6NV3* (Wireless Antenna): 12-Port antenna, 4 x 694-960 MHz, 4 x 1427-2690 MHz, 4 x 1695-2690 MHz, 65° HPBW, 6 x RETs, 2.8m Length
- RRZ4-6590B-R6NV3* (Wireless Antenna): 12-port sector antenna, 4x 694–960MHz, 65° HPBW, 8x 1427–2690MHz, 90° HPBW, 6x RET
- RRZZVV-65B-R8NV3D* (Wireless Antenna): 16-port sector antenna, 4x 694–960, 4x 1427–2690, 4x 1695-2180 and 4x 2490-2690 MHz, 65° HPBW, 8x RET

* 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
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
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-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-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	

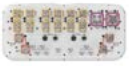
Specifications are subject to change. Please visit our website for the latest specifications.

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	

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

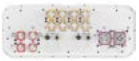
Specifications are subject to change. Please visit our website for the latest specifications.

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	

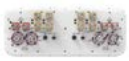
* Please contact CommScope Technical Support to learn more about this product.
Specifications are subject to change. Please visit our website for the latest specifications.

Beamforming Antennas

Multiband FDD + TDD Antennas

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

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	
RRZZVVQ4Q4-65BR8V4* (Wireless Antenna)	694-960 1427-2690 1695-2690 2300-3800 2300-3800	65° 65° 65° 90° 90°	15.1-15.4 14.5-17.2 15.9-17.4 13.8-20.2 15.8-21.7	2-12	2198	498	54.6	4.3-10 Female	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	

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	
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-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-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	6	700	970	30	4.3-10 Female	0	Type 117	

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	6	1300	970	54	4.3-10 Female	0	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	
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	
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	
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	53	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
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
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	
RRZZ-65B-R4N39-V1 (Fix Mechanical Tilt)	694–960 1427–2690	65° 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-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-R6N43V2*	694–960 1427–2690 1695-2690	65° 65° 65°	13.3–13.8 14.9-18.4	2-12	1566	430	30.4	4.3-10 Female	6	Type 81	
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-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-65D-R6NV3* (Wireless Antenna)	694-960 1427-2690 1695-2690	65° 65° 65°	15.5-16.4 15.6-18.8 17.2-18.6	2-12	2769	430	43	4.3-10 Female	6	Type 81	
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	
RRZZVV-65B-R8NV3D* (Wireless Antenna)	694-960 1427-2690 1695-2690	65° 65° 65°	14.4-15.3 15.7-19 16.8-17.8	2-12	2100	430	37	4.3-10 Female	8	Type 84	

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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-65B-R8NV3* (Wireless Antenna)	694–960 1427–2690 1695-2180 2490-2690	65° 65° 65° 65°	14.4-15.3 15.7-19 16.8-17.8	2-12	2100	430	37	4.3-10 Female	8	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	
RRZZV4-65D-R8NV3* (Wireless Antenna)	694-960 1427-2690 1695-2690	65° 65° 65°	15.5-16.1 14.8-17.8 16.8-18.8	2-12	2769	430	50.5	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-9014DS-VTM**	790–960	90	16	0–8	2435	225	18.10	7-16 DIN Female	0	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	
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	
RR-65C-R2VB-V3*	694-960	65°	15.5-16.1 14.8-17.8 16.8-18.8	2-12	2497	427	26.5	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-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	
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-R2VB-V2	1695-2690	65°	17.3-18.5	0-10	1377	257	9.8	4.3-10 Female	2	Type 6	

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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	
RVV-65A-R3 (replaces RVV-65A-M, RVV-65A-3X2 and TBXLHA-6565B-VTM)	694–960 1695–2690	65° 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° 65°	15.2–15.4 18.3–19.3	0–13 2–12	1850	301	23.00	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° 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	

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(*) 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	
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-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	

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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	
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	
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	

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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-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	

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	
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	
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°	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°	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°	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°	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°	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°	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°	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°	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°	14.1–14.7 16.4–17.9	2–14 2–12	1848	498	36.5	4.3-10 Female	6	Type 35	
RRZZVV-65B-R6H4	694–960 1427–2690 1695–2690	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°	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°	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-V6	694–960 1695-2690	65° 65°	16.2-17.1 16.8-17.3	2-12	2580	469	43.7	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
Specifications are subject to change. Please visit our website for the latest specifications.

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	
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	2-12	2250	498	44.8	4.3-10 Female	10	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	
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	35.3	4.3-10 Female	1	Type 1	
B-65B-R1VB*	380-470	65°	13.4–13.9	2-12	2002	500	24	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-R5V3 (Wireless Antenna)	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-R5V4	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	
RRZ4-6590B-R6NV3* (Wireless Antenna)	694-960 1427-2690	65° 90°	14.4-15.3 14.4-22.9	2-12	2100	430	37	4.3-10 Female	6	Type 35	

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

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-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	
VS-65T-FVB*	1695-2690 3300-3800	65° 65°	10.1-11.6 12.6-12.8	4 6	200	200	-	4.3-10 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	
3X-V65S-C3-3XR	1695–2690	65°	13.3–14.3	0–20	596	Ø 200	7.4	4.3-10 Female	3	

* 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

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	

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	
V4S4-360S-BF2	1695-2690 3300-3800	360° 360°	15.9-20.6 9.2-14.9	2	610	370	13.6	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.

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-3F	Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

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

3x-sectors Mounting

TS-MNT-TOP-370*	Pipe Mounting KIT with shroud, capability of mounting 37cm diameter round antennas (with trident mounting bracket, max length 2.1m, max weight 56kg) on the top of a pole with diameter

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-SIDE-370*	Pipe Mounting KIT with shroud, capability of mounting 37cm diameter round antennas (with trident mounting bracket, max length 2.1m, max weight 56kg) on the top of a pole with diameter

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")

CommScope pushes the boundaries of communications technology with game-changing ideas and ground-breaking discoveries that spark profound human achievement.
We collaborate with our customers and partners to design, create and build the world's most advanced networks. It is our passion and commitment to identify the next opportunity and realize a better tomorrow. Discover more at commscope.com.

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