

8-port L-Band Base Station Antenna family: New Product

CommScope's ultra wideband technology enables wireless operators to install one antenna where multiples were previously needed. The RYVV-65 ultra wideband antenna family is capable of supporting the three major air-interface standards in almost any wireless frequency range including L-Band LTE1500 — perfect for network modernization. Operators can reduce the number of antennas in their networks, lowering tower leasing costs while increasing speed to market capability.

Whilst size matters, this new antenna model maintains standard antenna width (350mm) but at the same time provides access to the new supplementary down link LTE 1500 technology at same size of a standard antenna. This antenna family is optimized for high performance in capacity-sensitive, data-driven environments. Controlled by the new CommScope CommRET v1 integrated RET motors fully Interoperable with all major OEM platforms.

- Future proof site deployments, wideband on high and low bands
 - For lower bands, supports LTE 700/800 MHz, 850 MHz, GSM900/UMTS900/LTE900 applications
 - For higher bands, supports LTE 1800, 1900, 2100 MHz and 2.6 GHz networks
 - LTE 1500 supplementary down link technology support (SDL).
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- New 4.3-10 connectors reducing the size on the antenna end cap and same time providing exceptional IMD stability on the connector level.
- Azimuth beamwidth stability across the frequency band provides better coverage and uniformity of coverage across the band.
- Horizontally spaced high band array configurations for optimum MIMO performance. 4X2 & 4X4 including carrier aggregation support.
- New Low- and UWB High Band radiators for optimum RF performance over all sub-bands.
- Integrated CommRET v1 Motors for independent control of each array. Cascaded Single RET AISG v 2.0 protocol. LTE2600 ports controlled by a single RET motor for MIMO4x4 support. RET UID color coding implemented for ease of implementation.
- Wind Load optimized UV resistant Fiberglass radome wind load optimized - supports up to 241km/h wind speed.



RYVV-65A-R4

Port Configuration



Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPXXXXXXXXXXXXXXXXR1
G1	1427-1518	3-4	2	CPXXXXXXXXXXXXXXXXG1
Y1	1695-2690	5-6	3	CPXXXXXXXXXXXXXXXXY1
Y2	1695-2690	7-8	4	CPXXXXXXXXXXXXXXXXY2

Left Bottom Right

(Sizes of colored boxes are not true depictions of array sizes)

Ordering Information:

Please see details below.

Part Number	Beamwidth	Frequency (MHz) / Ports	Length	RET option
RYVV-65A-R4	4 x 65°	694-960MHz / 2-ports 1427-1518MHz / 2-ports 1695-2690MHz / 4-ports	1.5m	4 integrated CommRET v1 motors 1 AISG I/O port pair; cascaded S-RET mode.
RYVV-65B-R4-V2	4 x 65°	694-960MHz / 2-ports 1427-1518MHz / 2-ports 1695-2690MHz / 4-ports	1.85m	4 integrated CommRET v1 motors 1 AISG I/O port pair; cascaded S-RET mode.

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