

12-port Ultra-Wideband Base Station Antenna: New Product

CommScope's ultra-wideband technology in combination of its best-in-class internal diplexer technology enables wireless operators to install one antenna where multiples were previously needed. The EGV4-65D-R6 ultra-wideband antenna is capable of supporting the three major air-interface standards in almost any wireless frequency range — perfect for network modernization. Operators can reduce the number of antennas in their networks, lowering tower leasing costs while increasing speed-to-market capability. Size matters! This new antenna provides two independent low band systems at the same width of a standard single low band antenna.

This antenna system is optimized for high performance in capacity-sensitive, data-driven environments. Controlled by CommScope's new internal RET system, this antenna's RET system is fully interoperable with all major OEM platforms.



- Future-ready site deployments, **ultra-wideband on high and diplexed low bands**
 - For lower bands, supports LTE 700/800 MHz & 850 MHz separated from GSM900/LTE900 applications
 - For higher bands, supports LTE 1800, 1900, 2100 MHz and 2.6 GHz networks
- **Element diplexed technology** reduces the antenna size and maintains independent downtilt control for both low band systems.
- **New 4.3-10 connectors** reduce the size on the antenna end cap and provides exceptional IMD stability on the connector level.
- **Azimuth beamwidth stability across the frequency band** provides improved 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 High Band radiators** for optimum RF performance.
- **Integrated CommRET v1 System** for independent control of each array. Cascaded single RET AISG v 2.0 protocol. Implementation of RET UID color coding helps ensure proper electrical tilt configurations (see Array Layout graphic).

Port Configuration



Array Layout

Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-862	1-2	1	CPxxxxxxxxxxxxxxxxR1
R2	880-960	3-4	2	CPxxxxxxxxxxxxxxxxR2
Y1	1695-2690	5-6	3	CPxxxxxxxxxxxxxxxxY1
Y2	1695-2690	7-8	4	CPxxxxxxxxxxxxxxxxY2
Y3	1695-2690	9-10	5	CPxxxxxxxxxxxxxxxxY3
Y4	1695-2690	11-12	6	CPxxxxxxxxxxxxxxxxY4

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

Ordering Information:

Please see details below.

Part Number	Beamwidth	Frequency (MHz)	Length	RET option
EGV4-65D-R6	6 x 65°	694–862 MHz / 2-ports 880–960 MHz / 2-ports 1695–2690 MHz / 8-ports	2.7 m	6 integrated CommRET v1 motors 1 AISG I/O port pair; cascaded S-RET mode

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