

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

CommScope introduces our next 14-port ultra-wideband antenna, featuring internal diplexer technology that enables wireless operators to install one antenna where multiples were previously needed. The EGZV4-65D-R6 ultra-wideband antenna is the next in CommScope's ultra-wideband antenna family to incorporate 3 horizontally-spaced high band arrays in a 395 mm-wide package. This arrangement maximizes 4X MIMO capability. The new 14-port antenna reduces required antenna counts—lowering tower leasing costs and speeding up deployments.

This antenna system is also optimized for high performance in capacity-sensitive, data-driven environments.

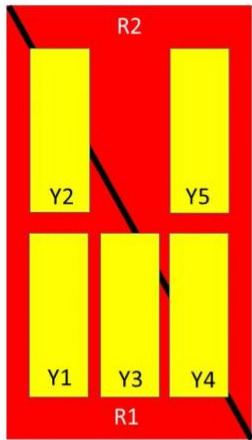


- Future-ready site deployments, **ultra-wideband on diplexed low bands**
 - For lower bands, supports LTE 700/800 MHz and 850 MHz, separated from GSM900 / LTE900 applications
 - For higher bands, supports LTE 1500, 1800, 1900, 2100 MHz and 2.6 GHz networks
- **Element diplexed technology** reduces the antenna size and maintains independent downtilt control for both low band systems.
- **One set of 3+2 horizontally-spaced high band arrays** for optimum MIMO capability. 4T2R and 4T4R, including carrier aggregation support.
- **New Low and High Band radiator designs** for optimum RF performance.
- **Azimuth beamwidth stability across the frequency band** provides improved coverage and uniformity of coverage across the band.
- **4.3-10 connectors** reduce the size on the antenna end cap and provides exceptional intermodulation stability on the connector level.
- **Internal RET System** is full interoperability with all major RAN platforms. Cascaded single RET using AISG 2.0 protocol. 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	4	CPxxxxxxxxxxxxxxxxY1
Y4	1695-2690	11-12		
Y3	1427-2690	9-10	3	CPxxxxxxxxxxxxxxxxY3
Y2	1695-2690	7-8	6	CPxxxxxxxxxxxxxxxxY2
Y5	1695-2690	13-14	5	CPxxxxxxxxxxxxxxxxY5

Left Bottom Right

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

Ordering Information:

Please visit [eCatalog](#) for product details.

Part Number	Beamwidth	Frequency (MHz)	Length	RET option
EGZV4-65D-R6	7 x 65°	694–862 / 2-ports 880–960 / 2-ports 1695–2690 / 8-ports 1427-2690 / 2-ports	2.7 m	6 internal CommRET v2 motors; 1 AISG I/O port pair; cascaded SRET mode