

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

CommScope's new 10-port ultra-wideband antenna, RV4-65D-R5-V4, enables wireless operators to install one antenna where multiples were previously needed. This antenna offers flexibility to support the three major air-interface standards in almost any wireless frequency range—perfect for network modernization. Operators can reduce antenna counts in their networks, lower tower leasing costs—plus speed up deployments.

This antenna system is optimized for high performance and is ideal for use in capacity-sensitive, data-driven environments. They are controlled by the CommScope cRETV1 integrated RET motors, which are fully interoperable with all major OEM platforms.

- Prepare for future site deployments with **ultra-wideband on both high and low bands**
 - Lower bands support LTE 700/800 MHz, 850 MHz, and GSM900/UMTS900/LTE900 applications.
 - Higher bands support LTE1800, 1900, 2100, 2300 and 2.6 GHz networks.
- **4.3-10 connectors** are reduced in size for easy access and provide 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 4X MIMO performance (4X2 and 4X4) and include carrier aggregation support.
- **New low and high band radiators** are designed for optimum RF performance.
- **Integrated cRETV1 motors** allow independent control of each array and use a Cascaded Single RET configuration with AISG v 2.0 protocol. RET UID color coding is implemented for ease of implementation.
- **UV resistant fiberglass radome** is wind load optimized, supporting up to 241 km/h wind speed.



Port Configuration



Array Layout



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

Left Right
Bottom

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

Ordering Information:

Part Number	Beamwidth	Frequency (MHz)	Length	RET Option
RV4-65D-R5-V4	5 x 65°	694-960 / 2-ports 1695-2690 / 8-ports	2.7m	5 integrated cRETV1 motors 1 AISG I/O port pair; cascaded S-RET mode

Visit our [eCatalog](#) for additional details and datasheet download.