

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

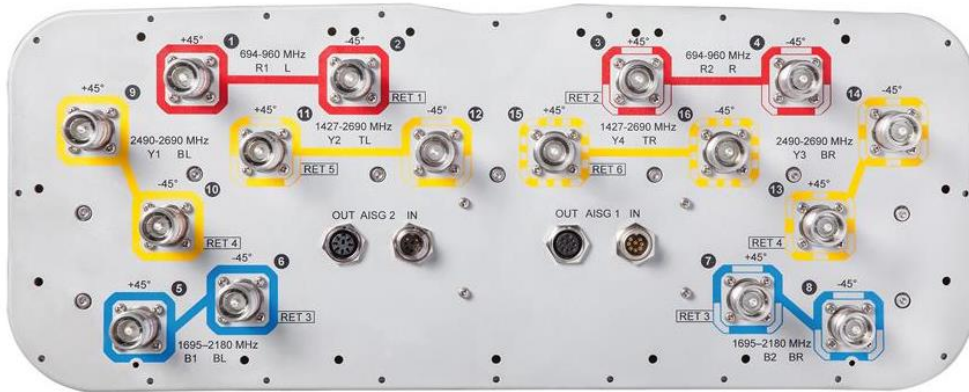
CommScope introduces our next 16-port ultra-wideband antenna, featuring the latest radiator technology that enables wireless operators to install one antenna where multiples were previously needed. The **RRZZHHTT-65D-R6** ultra-wideband antenna is the next in CommScope's ultra-wideband antenna family to incorporate 2 horizontally-spaced low band arrays in a 498 mm-wide package. This arrangement allows operators to separate 700, 800 and 900 frequency bands or providing Low Band 4x MIMO capability. The new 16-port antenna reduces required antenna counts—lowering tower leasing costs and speeding up deployments. This is a perfect solution for pre 5G sector consolidation activities to free up space.

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

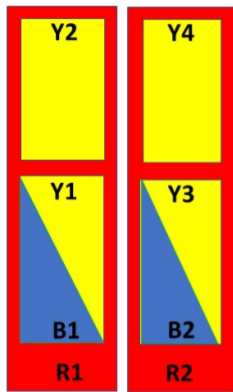
- **Future-ready site deployments, ultra-wideband on low & high bands**
 - For lower bands, supports LTE 700, LTE 800, , CDMA850, U900, G900 & LTE900 applications
 - For higher bands, supports 1400, 1800, 1900, 2100, 2300 MHz and 2.6 GHz networks
- **Element diplexed technology** reduces the antenna size and maintains independent downtilt control for four high band systems.
- **Two sets of 2+2 horizontally-spaced low band arrays** for optimum MIMO capability. 4X2 and 4X4, including carrier aggregation support for High and Low band applications.
- **New Low and High Band radiator designs** for optimum RF performance.
- Supports **re-configurable antenna sharing capability** enabling control of the internal RET system using up to two separate RET compatible OEM radios
- **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).
- **4.3-10 connectors** reduce the size on the antenna end cap and provides exceptional intermodulation stability on the connector level.



Port Configuration



Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxxxR2
Y2	1427-2690	11-12	5	CPxxxxxxxxxxxxxxxxY2
Y4	1427-2690	15-16	6	CPxxxxxxxxxxxxxxxxY4
B1	1695-2180	5-6	3	CPxxxxxxxxxxxxxxxxB1
B2	1695-2180	7-8		
Y1	2490-2690	9-10	4	CPxxxxxxxxxxxxxxxxY1
Y3	2490-2690	13-14		

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

Ordering Information:

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

Part Number	Beamwidth	Frequency (MHz) / Ports	Length	RET option
RRZZHHTT-65D-R6	8 x 65°	694-960 / 4-ports 1427-2690 / 4-ports 1695-2180 / 4-ports 2490-2690 / 4-ports	2.7 m	6 internal CommRET v2 motors; 2 AISG I/O port pair; cascaded SRET mode. 2 Primary Site sharing capability.