

10-Port Multiband Base Station Antenna: New Product

CommScope introduces the new 10 port ultra-wideband antennas, RV4-65B-R5 and RV4-65B-R5-V2 featuring 2 low band ports and 8 High Band ports in 2100.0 mm length. Designed to offer **superior performance** and **supports the major air-interface standards worldwide**.

These antennas are the perfect option to replace old single and dual band antennas, reducing tower load and saving tower lease costs.

The high band ports give flexibility to upgrade to 4x4 MIMO in addition to supporting existing GSM / WCDMA Networks. This antenna system is also optimized for high performance in capacity-sensitive, data-driven environments.

- **5 Independent Arrays** (1 Low band and 4 high bands) in a single Radome housing. High band arrays are perfectly symmetrical inside the antenna ensuring pattern consistency across ports, important for carrier aggregation.
- LTE Advance **Carrier Aggregation ready**
- Internal RET: Added flexibility by using CommRET v2 RETs - Any combination of arrays configurable to the sets of AISG ports enabling control of the internal RET
- **Excellent RF pattern control** – over the full operating band and tilt range for desired coverage and interference containment.
 - High band – 8 ports: Supports 1695–2690 MHz
 - Low band - 2 ports: Supports 694–960 MHz
 - Available in 7-16 DIN Female and 4.3-10 connector versions
 - 2 Sets of AISG ports (2In- 2Out) – Supports **re-configurable antenna sharing** capability to support Operators / OEMs sharing using CommRET v2
 - Antenna with **retractable tilt scale indicators** for all array
- 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	694-960	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

Ordering Information:

Model Number	Horizontal Beamwidth	Dimensions (L x W x D), mm	Frequency bands supported (MHz)	RET Option	Connector type
RV4-65B-R5	65°	2100 X 350 X 208	694-960 / 1695-2690	Internal	7-16 DIN Female
RV4-65B-R5-V2	65°	2100 X 350 X 208	694-960 / 1695-2690	Internal	4.3-10 Female

Support Information:

Please contact your local CommScope Sales Representative for more information.