Quintel®
New Dimensions in Wireless™

# QD66512-2

## 6ft 65° XXXXXX MultiServ™ 12-Port Antenna

**4x698-894MHz / 8x1695-2400MHz**

MultiServ.

- Full length High-band Arrays for optimal VBW and Gain
- Optimized Azimuth patterns for Min Inter-Sector Interference
- Industry leading Minimal Wind-Load Radome design

- Best in class Quality and Internal PIM performance
- Designed to minimize External PIM
- Independent RET for all arrays

| Electrical Characteristics | 4x Ports 1 2 & 3 4 | | 8x Ports 5 6 7 8 & 9 10 11 12 | | | |
|---|---|---|---|---|---|---|
| Operating Frequency (MHz) | 698-894 | | 1695-2400 | | | |
| | 698-803 | 824-894 | 1695-1780 | 1850-1990 | 2110-2180 | 2300-2400 |
| Peak Gain (dBi) | 14.6 | 15.3 | 16.8 | 17.6 | 17.8 | 18.3 |
| Azimuth beamwidth[1] | 64° | 60° | 70° | 65° | 66° | 62° |
| Elevation beamwidth[1] | 14.9° | 13.1° | 7.0° | 6.5° | 5.9° | 5.5° |
| Gain[1] (dBi) | 13.9 | 14.5 | 16.0 | 16.8 | 17.1 | 17.7 |
| Polarization | 2x ±45° | | 4x ±45° | | | |
| Electrical down-tilt range | 2x 2°-14° | | 4x 2°–12° | | | |
| Upper SLL at 20°>mainbeam (dB) | >15 | >15 | >17 | >19 | >17 | >16 |
| Front to Back at 180°±10° (dB)[1] | 29 | 31 | 33 | 33 | 34 | 41 |
| Port to Port isolation[1] | 27 | 29 | 29 | 32 | 30 | 32 |
| Return loss/VSWR (dB) | 14/1.5 | 14/1.5 | 14/1.5 | 14/1.5 | 14/1.5 | 14/1.5 |
| X Polar Discrimination at 0° (dB) | 15 | 15 | 18 | 19 | 19 | 22 |
| Max Power handling (per any port) | 300 Watts | | 250 Watts | | | |
| Total Composite Power (all ports) | 1100 Watts | | | | | |
| PIM (dBc: 2x43dBm) | >153 | | >153 | | | |

[1] *Typical Performance across ports, frequencies and Downtilt.*

| Mechanical Characteristics | |
|---|---|
| Dimensions | L 72”(1828mm) x W 22”(558mm) x D 7.9”(200mm) |
| Weight (excl mounting brackets) | 110lbs (50.0kg) |
| No. of Connectors | 12x 4.3-10.0 DIN Female Long Neck |
| Max Wind Speed | 150mph (67m/s) |
| Equivalent Projected Area[2] | Front: 3.09 ft² (0.29m²) Side: 0.91ft² (0.085m²) |
| Wind Load[2] @161km/h (45m/s) | Front: 170lbs (756N), Side: 50lbs (222N) |
| Operating Temperature | -40°C to +65°C |

[2] *Equivalent Projected Area and Wind Load derived from simulation measurements. Equivalent Projected Area assumed $C_d$=1*

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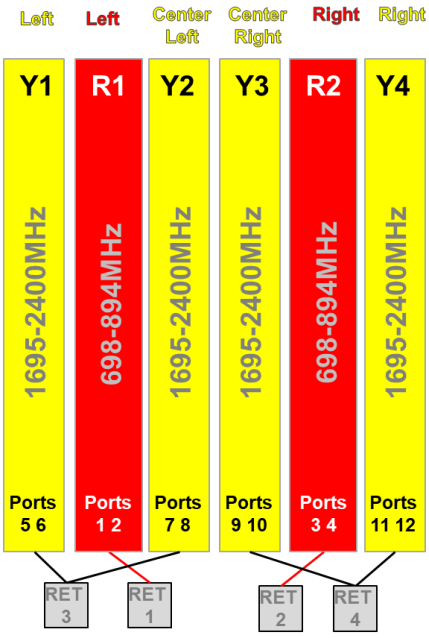
## Fully Integrated RET Characteristics

| | |
|---|---|
| Protocol | V 1.1/2.0/3GPP (SRET Type 1) |
| Surge immunity | IEC 61000-4-5:2005 4KV(AISG PIN) |
| AISG Data rate | 9.6 kbps |
| RET Connectors | 2x 8-Pin DIN Female & 2x 8-Pin DIN Male |

## Port Layout, Array Configuration and RET ID


| RET ID | Ports | | | | Arrays | | Freq Range |
|---|---|---|---|---|---|---|---|
| 1 | 1 | 2 | | | R1 | | 698-894MHz |
| 2 | | | 3 | 4 | | R2 | 698-894MHz |
| 3 | 5 | 6 | 7 | 8 | Y1 | Y2 | 1695-2400MHz |
| 4 | 9 | 10 | 11 | 12 | Y3 | Y4 | 1695-2400MHz |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