

3X-V65S-C3-3XR



6-port small cell antenna, 6x 1695–2690 MHz, 65° HPBW, 3x RET

- Three DualPol® antennas under one radome
- Fully integrated flange mounting system for ease of installation
- Ideal concealment solution for areas with special regulations regarding visual impact
- 4.3-10 connector significantly improves PIM consistency and smaller footprint on antenna bottom

General Specifications

| | |
|--|--|
| Antenna Type | Small Cell |
| Band | Single band |
| Color | Light Gray (RAL 7035) |
| Grounding Type | RF connector inner conductor and body grounded to reflector and mounting bracket |
| Performance Note | Outdoor usage |
| Radome Material | Fiberglass, UV resistant |
| Reflector Material | Aluminum |
| RF Connector Interface | 4.3-10 Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, mid band | 6 |
| RF Connector Quantity, total | 6 |

Remote Electrical Tilt (RET) Information

| | |
|---|---------------------------|
| RET Interface | 8-pin DIN Male |
| RET Interface, quantity | 1 male |
| Input Voltage | 10–30 Vdc |
| Internal RET | Mid band (3) |
| Power Consumption, active state, maximum | 13 W |
| Power Consumption, idle state, maximum | 2 W |
| Protocol | 3GPP/AISG 2.0 (Multi-RET) |

Dimensions

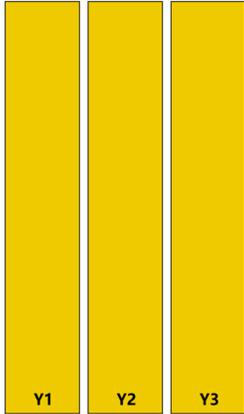
| | |
|---------------------------------|--------------------|
| Length | 596 mm 23.465 in |
| Net Weight, antenna only | 7.4 kg 16.314 lb |

3X-V65S-C3-3XR

Outer Diameter

200 mm | 7.874 in

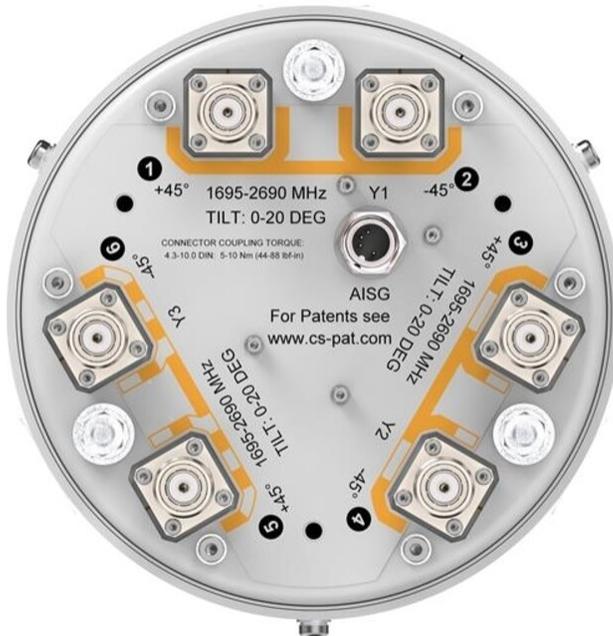
Array Layout



| Array ID | Frequency (MHz) | RF Connector | RET (MRET) | AISG No. | RET UID |
|----------|-----------------|--------------|------------|----------|--------------------|
| Y1 | 1695-2690 | 1 - 2 | 1 | AISG1 | ARxxxxxxxxxxxxx1.1 |
| Y2 | 1695-2690 | 3 - 4 | 2 | AISG1 | ARxxxxxxxxxxxxx1.2 |
| Y3 | 1695-2690 | 5 - 6 | 3 | AISG1 | ARxxxxxxxxxxxxx1.3 |

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

Port Configuration



Electrical Specifications

Impedance

50 ohm

Operating Frequency Band

1695 – 2690 MHz

Polarization

±45°

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Total Input Power, maximum 400 W @ 50 °C

Electrical Specifications

| | Y1-Y3 | Y1-Y3 | Y1-Y3 | Y1-Y3 | Y1-Y3 |
|--------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Frequency Band, MHz | 1695–1880 | 1850–1990 | 1920–2200 | 2300–2500 | 2500–2690 |
| RF Port | 1-6 | 1-6 | 1-6 | 1-6 | 1-6 |
| Gain, dBi | 13.3 | 13.6 | 13.7 | 14.3 | 14.3 |
| Beamwidth, Horizontal, degrees | 74 | 73 | 72 | 68 | 71 |
| Beamwidth, Vertical, degrees | 18.7 | 17.5 | 16.7 | 14.6 | 13.6 |
| Beam Tilt, degrees | 0–20 | 0–20 | 0–20 | 0–20 | 0–20 |
| USLS (First Lobe), dB | 15 | 16 | 16 | 16 | 15 |
| Front-to-Back Ratio at 180°, dB | 32 | 31 | 30 | 34 | 36 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 | 25 | 25 |
| Isolation, Inter-band, dB | 35 | 35 | 35 | 35 | 35 |
| VSWR Return loss, dB | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc | -153 | -153 | -153 | -150 | -150 |
| Input Power per Port, maximum, watts | 300 | 300 | 300 | 250 | 250 |

Mechanical Specifications

| | |
|----------------------------------|---|
| Wind Loading @ Velocity, frontal | 58.0 N @ 150 km/h (13.0 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 58.0 N @ 150 km/h (13.0 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 58.0 N @ 150 km/h (13.0 lbf @ 150 km/h) |
| Wind Speed, maximum | 241.4 km/h (150 mph) |

Packaging and Weights

| | |
|----------------|---------------------|
| Width, packed | 320 mm 12.598 in |
| Depth, packed | 300 mm 11.811 in |
| Length, packed | 850 mm 33.465 in |
| Weight, gross | 10.2 kg 22.487 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|--------|----------------|
|--------|----------------|

3X-V65S-C3-3XR

| | |
|---------------|--|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| UK-ROHS | Compliant |

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance