

V65S-C3-1XR



2-port small cell antenna, 2x 1695–2690 MHz, 65° HPBW, 1x RET with manual override.

- Provides a future-ready antenna solution with flexibility to reassign antenna, for example GSM 1800 service to 2.6GHz LTE at a later date
- Employs state-of-the-art ultra wideband technology providing excellent RF performance in all bands
- RF technology flexible—suitable for LTE, UMTS, CDMA, GSM, AWS, WiMAX, and other applications from 1.7–2.7 GHz
- Excellent RF pattern control over the full operating band and tilt range for desired coverage and interference containment
- 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 | PVC, UV resistant |
| Radiator Material | Low loss circuit board |
| Reflector Material | Aluminum |
| RF Connector Interface | 4.3-10 Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, high band | 2 |
| RF Connector Quantity, mid band | 0 |
| RF Connector Quantity, low band | 0 |
| RF Connector Quantity, total | 2 |

Remote Electrical Tilt (RET) Information

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|-------------------------|-----------------------------------|
| RET Interface | 8-pin DIN Female 8-pin DIN Male |
| RET Interface, quantity | 1 female 1 male |
| Input Voltage | 10–30 Vdc |

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| Internal RET | Low band (1) |
| Power Consumption, idle state, maximum | 2 W |
| Power Consumption, normal conditions, maximum | 13 W |
| Protocol | 3GPP/AISG 2.0 (Single RET) |

Dimensions

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|----------------------------------|--------------------|
| Width | 170 mm 6.693 in |
| Depth | 105 mm 4.134 in |
| Length | 600 mm 23.622 in |
| Net Weight, without mounting kit | 3.8 kg 8.378 lb |

Electrical Specifications

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|--------------------------|-----------------|
| Impedance | 50 ohm |
| Operating Frequency Band | 1695 – 2690 MHz |
| Polarization | ±45° |

Electrical Specifications

| Frequency Band, MHz | 1695–1880 | 1850–1990 | 1920–2200 | 2300–2500 | 2500–2690 |
|--------------------------------------|------------|------------|------------|------------|------------|
| Gain, dBi | 13.4 | 13.8 | 13.9 | 14.4 | 14.5 |
| Beamwidth, Horizontal, degrees | 70 | 68 | 69 | 63 | 61 |
| Beamwidth, Vertical, degrees | 18.5 | 17.2 | 16.4 | 14.4 | 13.6 |
| Beam Tilt, degrees | 0–20 | 0–20 | 0–20 | 0–20 | 0–20 |
| USLS (First Lobe), dB | 15 | 17 | 17 | 17 | 14 |
| Front-to-Back Ratio at 180°, dB | 27 | 27 | 28 | 28 | 25 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 | 25 | 25 |
| 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 | -153 | -153 |
| Input Power per Port, maximum, watts | 300 | 300 | 300 | 250 | 250 |

Mechanical Specifications

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|----------------------------------|--|
| Wind Loading @ Velocity, frontal | 118.0 N @ 150 km/h (26.5 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 48.0 N @ 150 km/h (10.8 lbf @ 150 km/h) |

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| Wind Loading @ Velocity, rear | 151.0 N @ 150 km/h (33.9 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Packaging and Weights

| | |
|----------------|--------------------|
| Width, packed | 302 mm 11.89 in |
| Depth, packed | 212 mm 8.346 in |
| Length, packed | 726 mm 28.583 in |
| Weight, gross | 8.9 kg 19.621 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CE | Compliant with the relevant CE product directives |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |



Included Products

| | |
|--------|---|
| DB390 | – Pipe Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Use for narrow panel antennas. Includes two pipe mounts. |
| DB5098 | – Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members |

* Footnotes

| | |
|------------------|---|
| Performance Note | Severe environmental conditions may degrade optimum performance |
|------------------|---|

DB390



Pipe Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Use for narrow panel antennas. Includes two pipe mounts.

Product Classification

Product Type Pipe mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 114.3 mm | 4.5 in

Compatible Diameter, minimum 61 mm | 2.402 in

Weight, net 2 kg | 4.409 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 2.1 kg | 4.63 lb

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CHINA-ROHS | Below maximum concentration value |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| REACH-SVHC | Compliant as per SVHC revision on www.andrew.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |



DB5098



Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members

Product Classification

Product Type Downtilt mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 114.3 mm | 4.5 in

Compatible Diameter, minimum 61 mm | 2.402 in

Weight, net 0.7 kg | 1.543 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 0.8 kg | 1.764 lb

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CHINA-ROHS | Below maximum concentration value |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| REACH-SVHC | Compliant as per SVHC revision on www.andrew.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |



