F-65C-R1



2-port sector antenna, 2x 617–806 MHz, 65° HPBW, 1x RET, 600MHz-Ready Antenna Technology

OBSOLETE

This product was discontinued on: March 30, 2021

General Specifications

Antenna Type Sector

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 | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

Radome Material Fiberglass, UV resistant

Radiator Material Aluminum | Low loss circuit board

RF Connector Interface 4.3-10 Female

RF Connector LocationBottom

RF Connector Quantity, low band 2
RF Connector Quantity, total 2

Remote Electrical Tilt (RET) Information

RET Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 1 female | 1 male

Input Voltage 10–30 Vdc
Internal RET Low band (1)

Power Consumption, idle state, maximum 1 W Power Consumption, normal conditions, maximum 8 W

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Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

 Width
 395 mm | 15.551 in

 Depth
 228 mm | 8.976 in

 Length
 2438 mm | 95.984 in

 Net Weight, without mounting kit
 28 kg | 61.729 lb

Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 617 – 806 MHz

Polarization ±45°

Total Input Power, maximum 500 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	617-698	698-806
Gain, dBi	15.8	16.4
Beamwidth, Horizontal, degrees	66	60
Beamwidth, Vertical, degrees	10.4	9.3
Beam Tilt, degrees	2-13	2-13
USLS (First Lobe), dB	19	17
Front-to-Back Ratio at 180°, dB	30	27
Isolation, Cross Polarization, dB	30	30
VSWR Return loss, dB	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc		-153
Input Power per Port at 50°C, maximum, watts	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	617-698	698-806
Gain by all Beam Tilts, average, dBi	15.7	16.1
Gain by all Beam Tilts Tolerance, dB	±0.2	±0.4
Gain by Beam Tilt, average, dBi	2° 15.5 7° 15.8 13° 15.6	2° 15.9 7° 16.3 13° 16.0
Beamwidth, Horizontal Tolerance, degrees	±1.9	±4.0



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Beamwidth, Vertical Tolerance, degrees	±0.6	±0.7
USLS, beampeak to 20° above beampeak, dB	17	14
Front-to-Back Total Power at 180° ± 30°, dB	25	22
CPR at Boresight, dB	22	24
CPR at Sector, dB	10	8

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 510.0 N @ 150 km/h (114.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 374.0 N @ 150 km/h (84.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 872.0 N @ 150 km/h (196.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 524.0 N @ 150 km/h (117.8 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

 Width, packed
 514 mm | 20.236 in

 Depth, packed
 372 mm | 14.646 in

 Length, packed
 2645 mm | 104.134 in

 Weight, gross
 44.4 kg | 97.885 lb

Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Above maximum concentration value

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

ROHS Compliant/Exempted UK-ROHS Compliant/Exempted





Included Products

BSAMNT-3 – Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

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