

FFH4-65C-R6-HG



12-port sector antenna, 4X 617-894 and 8X 1695-2200 MHz, 65°HPBW, 6X RETs

- Antenna design optimized to offer high gain performances
- Broadband performance 617-894 MHz and 1695-2200 MHz

General Specifications

Antenna Type	Sector
Band	Multiband
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, mid band	8
RF Connector Quantity, low band	4
RF Connector Quantity, total	12

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
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 (2) Mid band (4)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

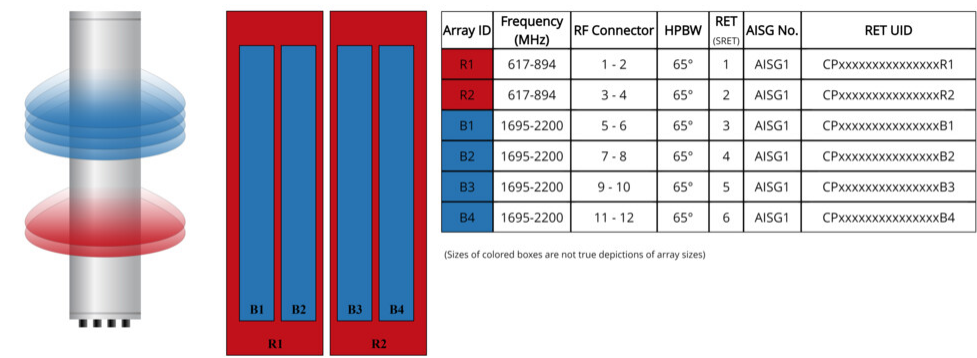
Dimensions

Width	640 mm 25.197 in
Depth	235 mm 9.252 in
Length	2438 mm 95.984 in

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Net Weight, without mounting kit 53.6 kg | 118.168 lb

Array Layout



Port Configuration



Electrical Specifications

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Impedance	50 ohm
Operating Frequency Band	1695 – 2200 MHz 617 – 894 MHz
Polarization	±45°
Total Input Power, maximum	1,440 W

Electrical Specifications

	R1,R2	R1,R2	B1-B4	B1-B4	B1-B4
Frequency Band, MHz	617–698	698–894	1695–1880	1850–1990	1920–2200
RF Port	1-4	1-4	5-12	5-12	5-12
Gain, Maximum, dBi	16.3	17.2	19.4	19.6	19.8
Beamwidth, Horizontal, degrees	60	57	60	61	62
Beamwidth, Vertical, degrees	10.4	8.8	4.3	4	3.9
Beam Tilt, degrees	0–10	0–10	0–7	0–7	0–7
USLS (First Lobe), dB	15	15	15	15	15
Front-to-Back Ratio at 180°, dB	30	32	35	35	32
CPR at Boresight, dB	18	16	20	21	20
Isolation, Cross Polarization, dB	25	25	25	25	25
Isolation, Inter-band, 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	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	200	200	200

Mechanical Specifications

Wind Loading @ Velocity, frontal	986.0 N @ 150 km/h (221.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	291.0 N @ 150 km/h (65.4 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,256.0 N @ 150 km/h (282.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	616.0 N @ 150 km/h (138.5 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	752 mm 29.606 in
Depth, packed	382 mm 15.039 in

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Length, packed	2589 mm 101.929 in
Weight, gross	72 kg 158.733 lb

Regulatory Compliance/Certifications

Agency	Classification
UK-ROHS	Compliant

Included Products

BSAMNT-3F	–	Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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