# FFHH-65B-R3



8-port sector antenna, 4x 617-806 and 4x 1695–2360 MHz, 65° HPBW, 3x RET, 600 MHz-Ready Antenna Technology

#### **OBSOLETE**

This product was discontinued on: March 30, 2024

#### General Specifications

Antenna Type Sector

Band Multiband

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

**Reflector Material** Aluminum

**RF Connector Interface** 4.3-10 Female

**RF Connector Location**Bottom

RF Connector Quantity, high band 4
RF Connector Quantity, mid band 0

RF Connector Quantity, low band 4

RF Connector Quantity, total 8

### 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 High band (2) | Low band (1)

Power Consumption, idle state, maximum 1 W



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Net Weight, without mounting kit

Power Consumption, normal conditions, maximum 10 W

Protocol 3GPP/AISG 2.0 (Single RET)

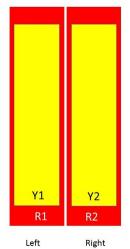
**Dimensions** 

 Width
 640 mm | 25.197 in

 Depth
 235 mm | 9.252 in

 Length
 1830 mm | 72.047 in

### Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID	
R1	617-806	1-2	1	ANxxxxxxxxxxxxxxxxxxxx1	
R2	617-806	3-4	1		
Y1	1695-2360	5-6	2	ANxxxxxxxxxxxxx2	
Y2	1695-2360	7-8	3	ANxxxxxxxxxxxx3	

46 kg | 101.413 lb

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

Port Configuration

Bottom





## **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2360 MHz | 617 – 806 MHz

Polarization ±45°

**Total Input Power, maximum** 900 W @ 50 °C

## **Electrical Specifications**

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Frequency Band, MHz	617-698	698-806	1695-1880	1850-1990	1920-2200	2300-2360
Gain, dBi	14.1	14.3	17.6	18.4	19	19.7
Beamwidth, Horizontal, degrees	65	60	66	60	60	54
Beamwidth, Vertical, degrees	14.9	13.3	5.7	5.3	4.9	4.4
Beam Tilt, degrees	2-14	2-14	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	19	17	20	19	19	20
Front-to-Back Ratio at 180°, dB	33	29	36	40	40	42
Isolation, Cross Polarization, dB	28	28	28	28	28	28
Isolation, Inter-band, dB	28	28	28	28	28	28
VSWR   Return loss, dB	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0

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## FFHH-65B-R3

PIM, 3rd Order, 2 x 20 W, dBc		-153	-153	-153	-153	-153
Input Power per Port at 50°C,	250	250	200	200	200	200
maximum, watts						

### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 765.0 N @ 150 km/h (172.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 251.0 N @ 150 km/h (56.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,041.0 N @ 150 km/h (234.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 788.0 N @ 150 km/h (177.1 lbf @ 150 km/h)

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

### Packaging and Weights

 Width, packed
 752 mm | 29.606 in

 Depth, packed
 387 mm | 15.236 in

 Length, packed
 1982 mm | 78.032 in

 Weight, gross
 57 kg | 125.663 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



#### Included Products

BSAMNT-4 – 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

