

# HHTT65A-F-4X2



8-port sector antenna, 4x 1710–2170 and 4x 2490–2690 MHz, 65° HPBW, factory attached AccuRET®

- Provides a future-ready antenna solution with flexibility to reassign antenna, for example GSM 1800 service to 2.6GHz LTE at a later date
- RF technology flexible—suitable for LTE, UMTS, CDMA, GSM, AWS, WiMAX, and other applications from 1.7–2.7 GHz
- Fully independent RET control, at same size as standard quad port antenna
- Excellent RF pattern control over the full operating band and tilt range for desired coverage and interference containment

## OBSOLETE

This product was discontinued on: March 27, 2020

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Single band
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	PVC, UV resistant
<b>Radiator Material</b>	Low loss circuit board
<b>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	8
<b>RF Connector Quantity, total</b>	8

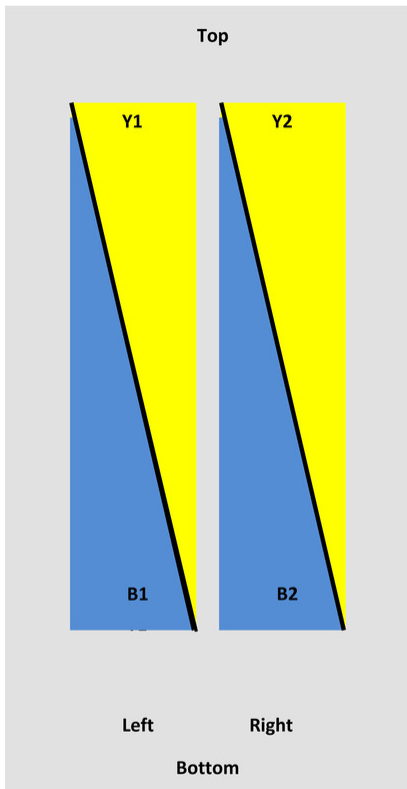
## Dimensions

<b>Width</b>	305 mm   12.008 in
<b>Depth</b>	118 mm   4.646 in
<b>Length</b>	1390 mm   54.724 in
<b>Net Weight, without mounting kit</b>	16.5 kg   36.376 lb

## Array Layout

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Array	Freq (MHz)	Conns
B1	1710-2170	1-2
B2	1710-2170	3-4
Y1	2490-2690	5-6
Y2	2490-2690	7-8

View from the front of the antenna

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

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1710 – 2170 MHz   2490 – 2690 MHz
<b>Polarization</b>	±45°

## Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2170	2490–2690
<b>Gain, dBi</b>	16.6	17.3	17.5	17.6
<b>Beamwidth, Horizontal, degrees</b>	68	67	67	62
<b>Beamwidth, Vertical, degrees</b>	6.8	6.4	6.1	5.1
<b>Beam Tilt, degrees</b>	0–12	0–12	0–12	0–12
<b>USLS (First Lobe), dB</b>	15	15	14	14

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<b>Front-to-Back Ratio at 180°, dB</b>	26	25	25	24
<b>CPR at Boresight, dB</b>	16	17	16	18
<b>CPR at Sector, dB</b>	12	12	11	9
<b>Isolation, Cross Polarization, dB</b>	28	28	28	28
<b>Isolation, Inter-band, dB</b>	28	28	28	28
<b>VSWR   Return loss, dB</b>	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150
<b>Input Power per Port, maximum, watts</b>	300	300	300	250

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>1710–1880</b>	<b>1850–1990</b>	<b>1920–2170</b>	<b>2490–2690</b>
<b>Gain by all Beam Tilts, average, dBi</b>	16.5	16.9	17	17.5
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.6	±0.4	±0.5	±0.8
<b>Gain by Beam Tilt, average, dBi</b>	0°   16.4 6°   16.6 12°   16.4	0°   17.1 6°   17.0 12°   16.7	0°   17.0 6°   17.2 12°   16.8	0°   17.6 6°   17.7 12°   16.9
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±6	±5	±5	±4.0
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.3	±0.4	±0.5	±0.3
<b>USLS, beampeak to 20° above beampeak, dB</b>	16	16	16	17
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	23	24	24	25
<b>CPR at Boresight, dB</b>	16	18	17	19
<b>CPR at Sector, dB</b>	13	14	13	8

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	515.0 N @ 150 km/h (115.8 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	121.0 N @ 150 km/h (27.2 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	562.0 N @ 150 km/h (126.3 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	410 mm   16.142 in
<b>Depth, packed</b>	261 mm   10.276 in
<b>Length, packed</b>	1530 mm   60.236 in

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**Weight, gross** 25.4 kg | 55.997 lb

## Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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

- 600899A-2 – 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