

8-port sector antenna, 4x 617-894 and 4x 1695-2690 MHz, 65° HPBW, 2x RET

- Narrow 499 mm radome for reduced windloading and easier zoning
- MIMO 4x4 in low-band and mid-band
- Compliant with AISG v2.0 and 3GPP
- Mechanical downtilt kit included
- Integrated RET

#### General Specifications

Antenna Type Sector

Band Multiband

**Grounding Type**RF connector inner conductor and body grounded to reflector and mounting

bracket

Performance NoteOutdoor usageRF Connector Interface4.3-10 Female

**RF Connector Location** Bottom

RF Connector Quantity, mid band 4
RF Connector Quantity, low band 4
RF Connector Quantity, total 8

#### 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 (1) | Mid band (1)

Power Consumption, active state, maximum  $10~\mathrm{W}$  Power Consumption, idle state, maximum  $2~\mathrm{W}$ 

**Protocol** 3GPP/AISG 2.0

**Dimensions** 

 Width
 499 mm | 19.646 in

 Depth
 215 mm | 8.465 in



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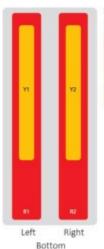
Length

1219 mm | 47.992 in

Net Weight, without mounting kit

22 kg | 48.502 lb

### Array Layout



Array ID	Frequency(MHz)	RF Connector	RET (SRET)	AISG RET UID		
	617-894	1-2		RFxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx		
	617-894	3 - 4	1			
Y1	1695-2690	5-6		RFxxxxxxxxxxxxxxxxxxxxxxx		
Y2	1695-2690	7 - 8	2			

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

### Port Configuration



## **Electrical Specifications**

**Impedance** 

50 ohm

**Operating Frequency Band** 

1695 - 2690 MHz | 617 - 894 MHz

ANDREW® an Amphenol company

Polarization ±45°

**Total Input Power, maximum** 900 W @ 50  $^{\circ}$ C

#### **Electrical Specifications**

	R1,R2	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	617-698	698-806	806-894	1695-1880	1850-1990	1995-2200	2200-2690
RF Port	1-4	1-4	1-4	5-8	5-8	5-8	5-8
Gain, dBi	13	13.8	13.9	16	16.3	16.7	17.4
Gain at Mid Tilt, dBi	12.6	13.5	13.7	15.2	16	16.5	16.7
Beamwidth, Horizontal, degrees	71	64	58	71	65	62	59
Beamwidth, Vertical, degrees	19.1	17.4	15.3	9.5	8.7	7.6	6.5
Beam Tilt, degrees	2-18	2-18	2-18	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	14	14	15	19	18	16	15
Front-to-Back Ratio at 180°, dB	26	24	29	29	28	27	27
Front-to-Back Total Power at 180° ± 30°, dB	18	20	21	23	22	23	22
CPR at Boresight, dB	20	21	16	15	21	18	18
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	19	19	19	23	23	23	23
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	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	250

#### Mechanical Specifications

**BASTA Version, mechanical**BASTA v12

#### Packaging and Weights

 Width, packed
 560 mm | 22.047 in

 Depth, packed
 265 mm | 10.433 in

 Length, packed
 1430 mm | 56.299 in

 Weight, gross
 30 kg | 66.139 lb



## Regulatory Compliance/Certifications

Agency Classification

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

UK-ROHS Compliant

#### Included Products

10052511-1 – APM40-2 mechanical downtilt bracket and. APM40-E10 mounting

kit

#### \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance



## 10052511-1

#### APM40-2 mechanical downtilt bracket and. APM40-E10 mounting kit

**Product Classification** 

Product Type Downtilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

**Dimensions** 

Compatible Diameter, maximum120 mm | 4.724 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net4.4 kg | 9.7 lb

Material Specifications

Material Type Aluminum | Carbon steel sheet

Packaging and Weights

Included Brackets | Hardware

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

CE