

6P-6M-A3 | V3-65A-R3



6-port sector antenna, 6x 1695–2690 MHz, 65° HPBW, 3x RET

- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- With tilt indicators and integrated pluggable RET
- Utilizes RET-PMOD-A20-3A01
- Conforms to RoHS 2011/65/EU

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
Radome Material	Fiberglass, UV resistant
Radiator Material	Aluminum
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	6
RF Connector Quantity, total	6

Remote Electrical Tilt (RET) Information

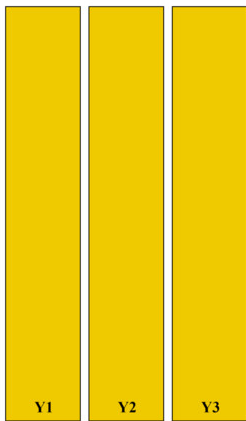
RET Hardware	CommRET v2
RET Interface	2x 8 pin connector as per IEC 60130-9 Daisy chain in: Male / Daisy chain out: Female Pin3: RS485A(AISG_B), Pin5: RS485B(AISG_A), Pin6: DC 10~30V, Pin7: DC_ Return
RET Interface, quantity	1 female 1 male
Input Voltage	10–30 Vdc
Internal RET	High band (3)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	10 W
Protocol	3GPP/AISG 2.0 (Single RET)

6P-6M-A3 | V3-65A-R3

Dimensions

Width	377 mm 14.843 in
Depth	87 mm 3.425 in
Length	1397 mm 55 in
Net Weight, without mounting kit	15.5 kg 34.172 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG RET UID
Y1	1695-2690	1 - 2	1	CPxxxxxxxxxxxxxxxxY1
Y2	1695-2690	3 - 4	2	CPxxxxxxxxxxxxxxxxY2
Y3	1695-2690	5 - 6	3	CPxxxxxxxxxxxxxxxxY3

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

Port Configuration



6P-6M-A3 | V3-65A-R3

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz
Polarization	±45°
Total Input Power, maximum	600 W

Electrical Specifications

Frequency Band, MHz	1695–1880	1850–1990	1920–2200	2300–2500	2500–2690
Gain, dBi	17.1	17.5	17.9	18.3	18.2
Beamwidth, Horizontal, degrees	67	65	63	59	58
Beamwidth, Vertical, degrees	7.2	6.9	6.4	5.5	5.3
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	19	21	19	18	20
Isolation, Cross Polarization, dB	28	28	28	28	28
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	250	250	250	250	250
Input Total Power per Antenna at 50°C, maximum, watts	250	250	250	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	1695–1880	1850–1990	1920–2200	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	16.8	17.3	17.6	17.9	17.7
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.4	±0.4	±0.6	±0.7
Beamwidth, Horizontal Tolerance, degrees	±4.8	±2.8	±4.2	±3.7	±3.9
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.4	±0.6	±0.5	±0.4
Front-to-Back Total Power at 180° ± 30°, dB	25	28	28	28	27
CPR at Boresight, dB	24	26	26	25	24

6P-6M-A3 | V3-65A-R3

CPR at Sector, dB 11 12 12 7 6

Mechanical Specifications

Wind Loading @ Velocity, frontal	524.0 N @ 150 km/h (117.8 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	58.0 N @ 150 km/h (13.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	482.0 N @ 150 km/h (108.4 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	472 mm 18.583 in
Depth, packed	207 mm 8.15 in
Length, packed	1627 mm 64.055 in
Weight, gross	23 kg 50.706 lb
Weight, net	15.5 kg 34.172 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



Included Products

- BSAMNT-B95-03 – 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.

BSAMNT-B95-03



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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 114.3 mm | 4.5 in

Compatible Diameter, minimum 61 mm | 2.402 in

Weight, net 4.5 kg | 9.921 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 2

Regulatory Compliance/Certifications

Agency

CE
ISO 9001:2015

Classification

Compliant with the relevant CE product directives
Designed, manufactured and/or distributed under this quality management system

