

Kit with one 4-port sector antenna model VV-65A-R1 (4x 1695–2690 MHz, 65° HPBW, 1x RET#The two high band arrays utilize a common tilt.)

- 1 x ATCB-B01-003 Cable 3m, RET to RRU
- The RET interface comprises one pair of AISG input/output ports

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

 Performance Note
 Outdoor usage

 Radome Material
 PVC, UV resistant

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 4

RF Connector Quantity, total 4

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 Voltage10-30 VdcInternal RETHigh band (1)

Power Consumption, idle state, maximum 2 W
Power Consumption, normal conditions, maximum 10 W

Protocol 3GPP/AISG 2.0

Dimensions

 Width
 307 mm | 12.087 in

 Depth
 118 mm | 4.646 in

Page 1 of 8



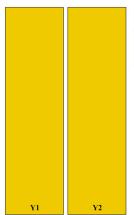
Length

1390 mm | 54.724 in

Net Weight, without mounting kit

10.8 kg | 23.81 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
Y1	1695-2690	1 - 2	65°	1	AISG1	CD000000000000000000000000000000000000
Y2	1695-2690	3 - 4	65°			CPxxxxxxxxxxxxxY1

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz

Polarization ±45°

Total Input Power, maximum 400 W @ 50 °C

Electrical Specifications

Frequency Band, MHz 1695-1880 1850-1990 1920-2200 2300-2500 2490-2690

Page 2 of 8



Gain, dBi	17.5	17.7	18.2	18.5	18.6
Beamwidth, Horizontal, degrees	66	65	66	63	62
Beamwidth, Vertical, degrees	6.9	6.5	6.1	5.4	5.2
Beam Tilt, degrees	0-12	0-12	0-12	0-12	0-12
USLS (First Lobe), dB	17	18	18	21	21
Front-to-Back Ratio at 180°, dB	30	31	32	29	30
Isolation, Cross Polarization, dB	30	30	30	30	30
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	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	300	250

Electrical Specifications, BASTA

Frequency Band, MHz	1695-1880	1850-1990	1920-2200	2300-2500	2490-2690
Gain by all Beam Tilts, average, dBi	17.1	17.5	17.9	18.3	18.2
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.4	±0.4	±0.5
Beamwidth, Horizontal Tolerance, degrees	±4.5	±3.5	±2.7	±2.5	±3.2
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.3	±0.5	±0.2	±0.2
USLS, beampeak to 20° above beampeak, dB	16	17	17	18	16
Front-to-Back Total Power at 180° ± 30°, dB	24	26	27	26	26
CPR at Boresight, dB	16	17	17	20	19
CPR at Sector, dB	15	14	13	7	9

Mechanical Specifications

Wind Loading @ Velocity, frontal	494.0 N @ 150 km/h (111.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	102.0 N @ 150 km/h (22.9 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	598.0 N @ 150 km/h (134.4 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Page 3 of 8

Packaging and Weights

 Width, packed
 404 mm | 15.906 in

 Depth, packed
 278 mm | 10.945 in

 Length, packed
 1527 mm | 60.118 in

 Weight, gross
 19.8 kg | 43.651 lb

Regulatory Compliance/Certifications

Classification

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.

ATCB-B01-003 – AISG RET Control Cable, 3 m

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance



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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum114.3 mm | 4.5 inCompatible Diameter, minimum61 mm | 2.402 inWeight, net3.9 kg | 8.598 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 4.2 kg | 9.259 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



Page 5 of 8

600899A-2









ATCB-B01-003



AISG RET Control Cable, 3 m

- Feeds data and power to RET system components
- AISG and RoHS compliant

Product Classification

Product Type AISG standard cable

General Specifications

AISG Connector A 8-pin DIN Female

AISG Connector A Body Style Straight

AISG Connector A Standard IEC 60130-9

AISG Connector B 8-pin DIN Male

AISG Connector B Body Style Straight

AISG Connector B Standard IEC 60130-9

Color Black

Data Conductor Type 0.24 mm² (24 AWG) twisted pair

EU Certification CB | CE

Power Conductor Type 0.82 mm² (18 AWG) stranded

Total Conductors, quantity 6

Dimensions

 Length
 3 m | 9.843 ft

 Diameter Over Jacket
 8 mm | 0.315 in

Electrical Specifications

Protocol AISG 1.1 | AISG 2.0

Voltage, maximum 300 V

Environmental Specifications

Operating Temperature $-40 \,^{\circ}\text{C} \text{ to } +70 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to } +158 \,^{\circ}\text{F})$

Relative Humidity Up to 100%

COMMSCOPE®

ATCB-B01-003

IEC 60068-2-14 **Climatic Sequence Test Method** IEC 60068-2-1 **Cold Exposure Test Method**

Damp Heat Exposure Test Method IEC 60068-2-30, Test Condition Db

Heat Exposure Test Method IEC 60068-2-2

Ingress Protection Test Method IEC 60529:2001, IP67

Rain Simulation Test Method IEC 60068-2-18, Test Condition Ra, Method 1

UV Resistance Test Method IEC 60068-2-5, Test Condition B

Packaging and Weights

Weight, net 0.3 kg | 0.661 lb

Regulatory Compliance/Certifications

Classification **Agency**

CE Compliant with the relevant CE product directives

trademarks and registered trademarks are property of their respective owners. Revised: September 28, 2023

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







Page 8 of 8