

3X-KVVS4-65B-R12



42-port tri-sector antenna, 6x617-960, 12x1695-2690MHz, 65°HPBW, 24x3300-3800MHz Beamformer, 12x RET

- Pole mounting kit not included. Separate pole mounting kit TS-MNT-TOP-370 available for pole diameter from 150 mm (5.9 inch) to 273 mm (10.7 inch). Please check Optional Mounting Kits section for more details

General Specifications

Antenna Type	Tri-sector
Band	Multiband
Calibration Connector Interface	M-LOC
Calibration Connector Quantity	3
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	ASA, UV stabilized
RF Connector Interface	4.3-10 Female M-LOC
RF Connector Location	Bottom
RF Connector Quantity, high band	24
RF Connector Quantity, mid band	12
RF Connector Quantity, low band	6
RF Connector Quantity, total	42

Remote Electrical Tilt (RET) Information

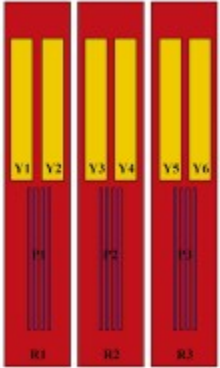
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	3 female 3 male
Internal RET	High band (3) Low band (3) Mid band (6)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0

3X-KVVS4-65B-R12

Dimensions

Length	2100 mm 82.677 in
Net Weight, antenna only	55.4 kg 122.136 lb
Outer Diameter	370 mm 14.567 in

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	617-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxxR1
Y1	1695-2690	7 - 8	2	AISG1	CPxxxxxxxxxxxxxxxxY1
Y2	1695-2690	9 - 10	3	AISG1	CPxxxxxxxxxxxxxxxxY2
P1	3300-3800	19 - 26	4	AISG1	CPxxxxxxxxxxxxxxxxP1
R2	617-960	3 - 4	5	AISG2	CPxxxxxxxxxxxxxxxxR2
Y3	1695-2690	11 - 12	6	AISG2	CPxxxxxxxxxxxxxxxxY3
Y4	1695-2690	13 - 14	7	AISG2	CPxxxxxxxxxxxxxxxxY4
P2	3300-3800	27 - 34	8	AISG2	CPxxxxxxxxxxxxxxxxP2
R3	617-960	5 - 6	9	AISG3	CPxxxxxxxxxxxxxxxxR3
Y5	1695-2690	15 - 16	10	AISG3	CPxxxxxxxxxxxxxxxxY5
Y6	1695-2690	17 - 18	11	AISG3	CPxxxxxxxxxxxxxxxxY6
P3	3300-3800	35 - 42	12	AISG3	CPxxxxxxxxxxxxxxxxP3

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

Port Configuration

3X-KVVS4-65B-R12

Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	20	22	18	18	18	18	17	14	13
Front-to-Back Ratio at 180°, dB	30	30	30	33	29	30	30	30	26	25
Coupling level, Amp, Antenna port to Cal port, dB									26	26
Coupling level, max Amp Δ, Antenna port to Cal port, dB									±2	±2
Coupler, max Amp Δ, Antenna port to Cal port, dB									0.9	0.9
Coupler, max Phase Δ, Antenna port to Cal port, degrees									7	7
CPR at Boresight, dB	18	19	19	22	20	22	21	21	13	12
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25	25	25	25
Isolation, Co-polarization, dB									19	19
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	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, typical, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150	-140	-140
Input Power per Port at 50°C, maximum, watts	300	300	300	300	250	250	200	200	75	75

Electrical Specifications, Broadcast 65°

Frequency Band, MHz	3300-3600	3600-3800
Gain, dBi	17.9	17.9
Beamwidth, Horizontal at 3 dB, degrees	65	65
Beamwidth, Vertical, degrees	6.3	5.8
USLS (First Lobe), dB	18	18

Electrical Specifications, Service Beam

Frequency Band, MHz	3300-3600	3600-3800
---------------------	-----------	-----------

3X-KVVS4-65B-R12

Steered 0° Gain, dBi	20	20.1
Steered 0° Beamwidth, Horizontal, degrees	26	25
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	29	27
Steered 0° Horizontal Sidelobe, dB	12	11
Steered 30° Gain, dBi	19	19.1
Steered 30° Beamwidth, Horizontal, degrees	28	27
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	28	25

Electrical Specifications, Soft Split

Frequency Band, MHz	3300–3600	3600–3800
Gain, dBi	18.8	19.1
Beamwidth, Horizontal, degrees	32	29
Front-to-Back Total Power at 180° ± 30°, dB	28	26
Horizontal Sidelobe, dB	16	16

Mechanical Specifications

Wind Loading @ Velocity, frontal	489.0 N @ 150 km/h (109.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	489.0 N @ 150 km/h (109.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	489.0 N @ 150 km/h (109.9 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	478 mm 18.819 in
Depth, packed	464 mm 18.268 in
Length, packed	2461 mm 96.89 in
Weight, gross	64.2 kg 141.537 lb

Regulatory Compliance/Certifications

3X-KVVS4-65B-R12

Agency

CHINA-ROHS

ROHS

UK-ROHS



Classification

Below maximum concentration value

Compliant

Compliant

Related Products

TS-MNT-TOP-370

- Pipe Mounting KIT with shroud, capability of mounting 37cm diameter round antennas (with trident mounting bracket, max length 2.1m, max weight 56kg) on the top of a pole with diameter from Ø150 to Ø273mm

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance

TS-MNT-TOP-370



Pipe Mounting KIT with shroud, capability of mounting 37cm diameter round antennas (with trident mounting bracket, max length 2.1m, max weight 56kg) on the top of a pole with diameter from Ø150 to Ø273mm

Product Classification

Product Type Mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 273 mm | 10.748 in

Compatible Diameter, minimum 150 mm | 5.906 in

Weight, net 16.5 kg | 36.376 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Weight, gross 20 kg | 44.092 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on www.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

