

ATR4518R4

DXXX-790-960/1710-2690/1710-2690-65/65/65-16i/18i/18i-M/M/M-R

EasyRET Tri-Band Antenna with 3 Integrated RCUs - 2.0m



By HUAWEI

Antenna Specifications

Electrical Properties																															
Frequency range (MHz)	790 - 960										2 x (1710 - 2690)																				
	790 - 862			824 - 894			880 - 960			1710 - 1990			1920 - 2200			2300 - 2690															
Polarization	+45° , -45°																														
Electrical downtilt (°)	0 - 10 , continuously adjustable																														
Gain (dBi)	0°	5°	10°	0°	5°	10°	0°	5°	10°	0°	5°	10°	0°	5°	10°	0°	5°	10°													
	15.7	15.8	15.4	15.8	15.9	15.5	15.8	16.0	15.5	17.2	17.4	17.1	17.8	18.0	17.5	17.7	17.8	17.2													
Side lobe suppression for first side lobe above main beam (Typ.) (dB)	0°	5°	10°	0°	5°	10°	0°	5°	10°	0°	5°	10°	0°	5°	10°	0°	5°	10°													
	16	16	15	16	16	15	16	16	15	17	17	16	17	17	16	16	16	15													
Horizontal 3dB beam width (°)	66			63			60			65			62			60															
Vertical 3dB beam width (°)	9.8			9.4			8.8			5.7			5.2			4.2															
VSWR	< 1.5																														
Isolation between ports (dB)	Intra-system: ≥ 28 Inter-system: ≥ 30																														
Front to back ratio, copolar (dB)	Typ. 27										Typ. 28																				
Cross polar ratio (dB)	0°	Typ. 18										Typ. 18																			
	±60°	Typ. 10										Typ. 10																			
Max. power per input (W)	500 (at 50°C ambient temperature)										250 (at 50°C ambient temperature)																				
Intermodulation IM3 (dBc)	≤ -153 (2 x 43 dBm carrier)																														
Impedance (Ω)	50																														
Grounding	DC Ground																														

Mechanical Properties	
Antenna dimensions (H x W x D) (mm)	1999 x 349 x 166
Packing dimensions (H x W x D) (mm)	2445 x 475 x 266
Antenna net weight (kg)	24
Bracket weight (kg)	4.6
Packing weight (kg)	36
Mechanical downtilt (°)	0 - 12
Mast diameter (mm)	50 - 115
Radome material	Fiberglass
Radome colour	Light grey
Operational temperature (°C)	-40 .. +65
Wind load (N)	Frontal: 705 (at 150 km/h) Lateral: 230 (at 150 km/h) Rear side: 745 (at 150 km/h)
Max. operational wind speed (km/h)	150
Survival wind speed (km/h)	200
Connector	6 x 7/16 DIN Female
Connector position	Bottom

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Integrated RCU Specifications

Properties								
RET type	Integrated RET							
RET protocols*	AISG 2.0 / 3GPP							
Input voltage range (V)	10 - 30 DC							
Power consumption (W)	< 10 (motor activated) < 0.5 (stand by)							
Adjustment time (full range) (s)	< 50 (typically, depending on antenna type)							
RET connector	2 x 8 pin connector according to IEC 60130-9 Daisy chain in: Male / Daisy chain out: Female							
Pin assignment according AISG	1 DC	2 n/c	3 RS-485B	4 n/c	5 RS-485A	6 DC in/out	7 DC return	8 n/c
Lightning protection (kA)	AISG interface (each pin) 3 (10/350 µs) 10 (8/20 µs)							

* Please confirm the AISG protocol of primary station is compatible with RET antenna protocol interface. The protocol of RET antenna software interface is switchable between AISG 2.0/3GPP and AISG 1.1 with a vendor defined command. For more details about protocol switching function, contact Huawei before system installation.

Standards: EN 60950-1 (Safety), EN 55022 (Emission), EN 55024 (Immunity), ETSI EN300386 (1.4.1), FCC part15

Certification: CE, FCC, RoHS, WEEE