

ATR4518R4

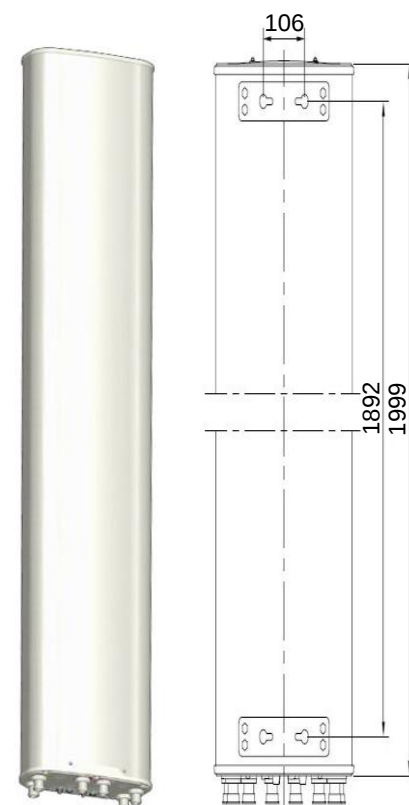
DXXX-790-960/1710-2690/1710-2690-65/65/65-16i/18i/18i-M/M/M-R
EasyRET Tri-Band Antenna with 3 Integrated RCUs - 2.0m



Antenna Specifications

Electrical Properties																							
Frequency range (MHz)		790 - 960									2 x (1710 - 2690)												
		790 - 862			824 - 894			880 - 960			1710 - 1990			1920 - 2200			2200 - 2490			2490 - 2690			
Polarization		+45°, -45°																					
Electrical downtilt (°)		0 - 10 , continuously adjustable									0 - 10 , continuously adjustable												
Gain (dBi)		0°	5°	10°	0°	5°	10°	0°	5°	10°	0°	5°	10°	0°	5°	10°	0°	5°	10°	0°	5°	10°	
		15.7	15.9	15.6	16.0	16.1	15.6	16.1	16.3	15.8	17.5	17.3	17.0	17.8	17.8	17.3	18.0	18.0	17.6	17.8	18.2	17.7	
Side lobe suppression (Typ.) (dB)		0°	5°	10°	0°	5°	10°	0°	5°	10°	0°	5°	10°	0°	5°	10°	0°	5°	10°	0°	5°	10°	
-for first side lobe above main beam		18	18	18	18	18	18	18	18	18	16	16	17	17	17	17	17	18	18	17	18	18	
-within 0° - 15° sector above horizon		17	17	16	17	17	16	17	17	17	15	15	15	16	16	16	16	16	16	15	15	15	
Horizontal 3dB beam width (°)		65			64			62			65			62			60			60			
Vertical 3dB beam width (°)		10.1			9.8			9.3			5.8			5.4			4.8			4.3			
VSWR		< 1.5																					
Isolation between ports (dB)		Intra-system: ≥ 28 Inter-system: ≥ 30																					
Front to back ratio, copolar (dB)		Typ. 28																					
Cross polar ratio (dB)		0°	Typ. 18																				
		± 60°	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)	2275 x 400 x 230
Antenna net weight (kg)	25
Bracket weight (kg)	5.6
Packing weight (kg)	36.3
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: 730 (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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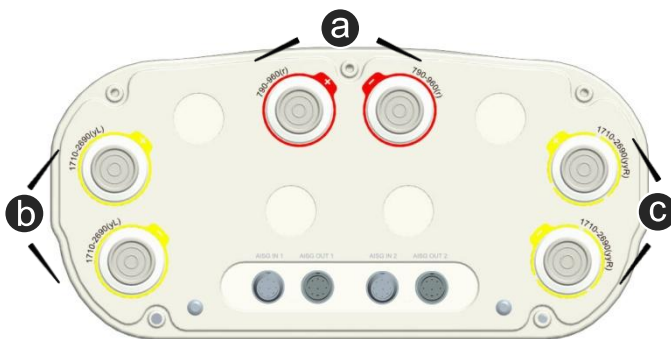
Integrated RCU Specifications

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	4 x 8 pin connector according to IEC 60130-9 Daisy chain in: Male / Daisy chain out: Female							
Pin assignment according AISG	1	2	3	4	5	6	7	8
	DC	n/c	RS-485B	n/c	RS-485A	DC in/out	DC return	n/c
Lightning protection (kA)	AISG interface (each pin) 3 (10/350 μ s) 10 (8/20 μ s)							

* 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



Integrated RCU S/N: a HWMxxx.....r

b HWMxxx....yL

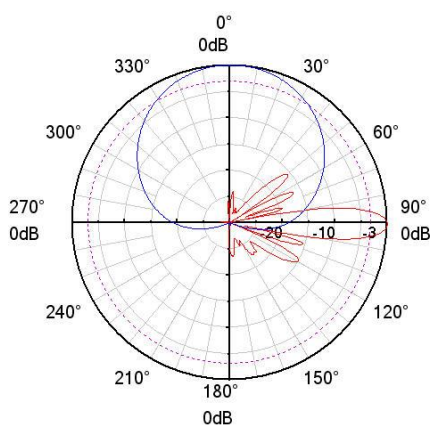
c HWMxxx..yyR

r - Red

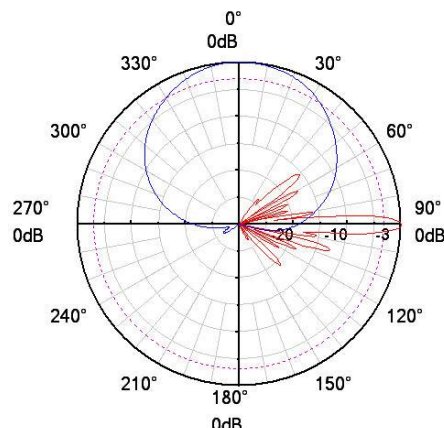
L - Left array

y - Yellow

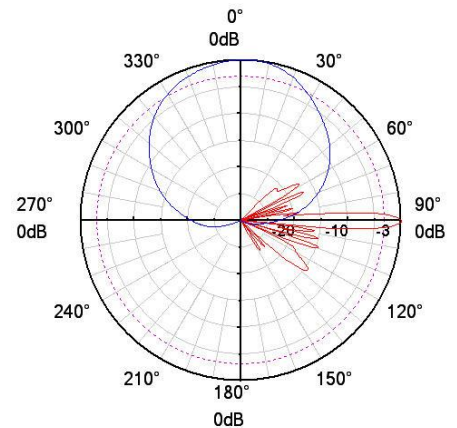
R - Right array



790 - 960 MHz



1710 - 2690 MHz
(Left)



1710 - 2690 MHz
(Right)