

Part list

Item	Description	Qty
Antenna	Tri sector cluster antenna, 1x(690-960)/ 2x(1710-2690)	1
AISG	AISG 1.1 & 2.0 jumper cable 10m, round connector male and female on both end	3

ANTENNA SPECIFICATION

Electrical data

Frequency (MHz)		698-790	790-890	890-960	1710-1920	1920-2180	2300-2690
Gain	dBi	11±0.5	11±0.5	11±0.5	15±1.0	15±1.0	15±1.0
Polarization	°	±45					
Horizontal pattern							
3dB beamwidth	°	70±10	70±10	70±10	65±7	65±9	65±10
Horizontal beam centers °		0/120/240			0/120/240		
F/B ratio Co-polar(180°±30°)	dB	≥19			≥24		
Vertical pattern							
3dB beamwidth	°	25±6	24±6	22±5	11±5	10±4	9±4
Electrical down tilt		2-12					
1 st Upper sidelobe Suppression	dB	≥10			≥12		
RF parameters							
VSWR		≤1.5:1					
Port isolation (inter band)	dB	≥23	≥23	≥23	≥23	≥23	≥23
3 rd Order PIM	dBc	≤ -150 @2x43dBm					
Impedance	Ω	50					
Power handing	W	200W					

Mechanical data

Input connectors	18x 4.3-10 female (per sector 6 port, 2 for 698-960MHz, 4 for 1710-2690MHz)
Connector Position	Bottom
Azimuth of adjustable range	No adjustable (per sector)
Lightning protection	DC Ground
Radome material	Fiberglass/White
Radiator material	Aluminum
Reflector material	Aluminum
Mount kits	Flange mounted

RL-G6W8W8X65VI-1M-JS01

1x(690-960)/2x(1710-2690) Tri sector cluster antenna

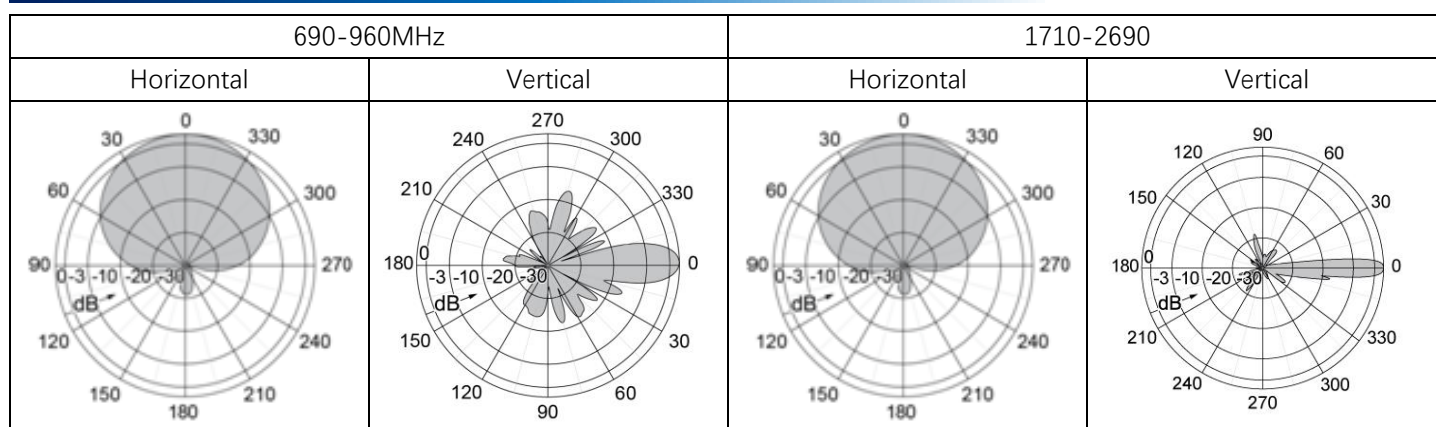
PROSE

Antenna weight	≤50.5kg
Antenna dimension	Ref. φ450x1270mm
Maximum wind velocity	160km/h
Wind loading, Frontal (N)	≤ 630
Wind loading, Lateral (N)	≤ 630
Wind loading, Rearal (N)	≤ 630
Relative humidity	5%-95%
Operating temperature range	-40 to +60°C
Storage temperature range	-55 to +65°C
0.3m Elevated frame and necessary fasten parts included	



Stand not included

Pattern



-Our quality assurance system and our environmental management system apply to the entire company and are certified according to EN ISO 9001, EN ISO 14001 and OHSAS 18001

- Our products are compliant to the EU Directive RoHS 2011/65/EU as well as to other environmentally relevant regulations (e.g. REACH)

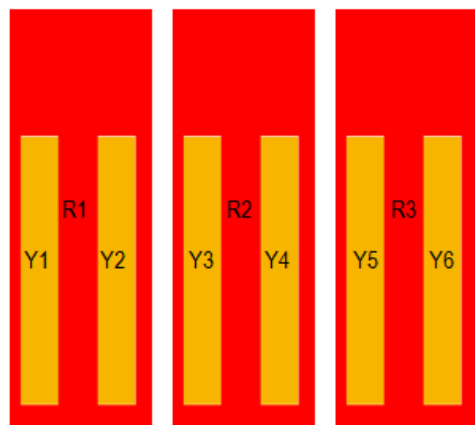
- Antenna specifications are measured and declared to comply with BASTA v11.1



RET information

RET type	Integrated RET
RET protocol	AISG 2.0, AISG1.1/3GPP
Input voltage range(V):	10-30V DC
Power consumption(W):	< 5 (motor activated single RET) < 1 (stand by, single RET), < 1.5 (stand by, 12V)
Adjustment time (full range) S	< 120 (typically, depending on antenna type)
RET connector:	AISG 8 pin male & female
Pin assignment according AISG:	8pin circular connector conforming to IEC 60130-9 Ed 3.0
Lightning protection (kA)	5 (8/20 us differential mode), 8 (8/20 us common mode)

Array	Connector	Frequency (MHz)	Sub Unit	RET type	RCU serial No.
Y1	1,2	1710-2690MHz	1	SRET	RLY1TPXXXXXXXXXXXX
Y2	3,4	1710-2690MHz	2	SRET	RLY2TPXXXXXXXXXXXX
R1	5,6	698-960MHz	3	SRET	RLR1TPXXXXXXXXXXXX
Y3	1,2	1710-2690MHz	1	SRET	RLY3TPXXXXXXXXXXXX
Y4	3,4	1710-2690MHz	2	SRET	RLY4TPXXXXXXXXXXXX
R2	5,6	698-960MHz	3	SRET	RLR2TPXXXXXXXXXXXX
Y5	1,2	1710-2690MHz	1	SRET	RLY5TPXXXXXXXXXXXX
Y6	3,4	1710-2690MHz	2	SRET	RLY6TPXXXXXXXXXXXX
R3	5,6	698-960MHz	3	SRET	RLR3TPXXXXXXXXXXXX



Recommend installation instructions

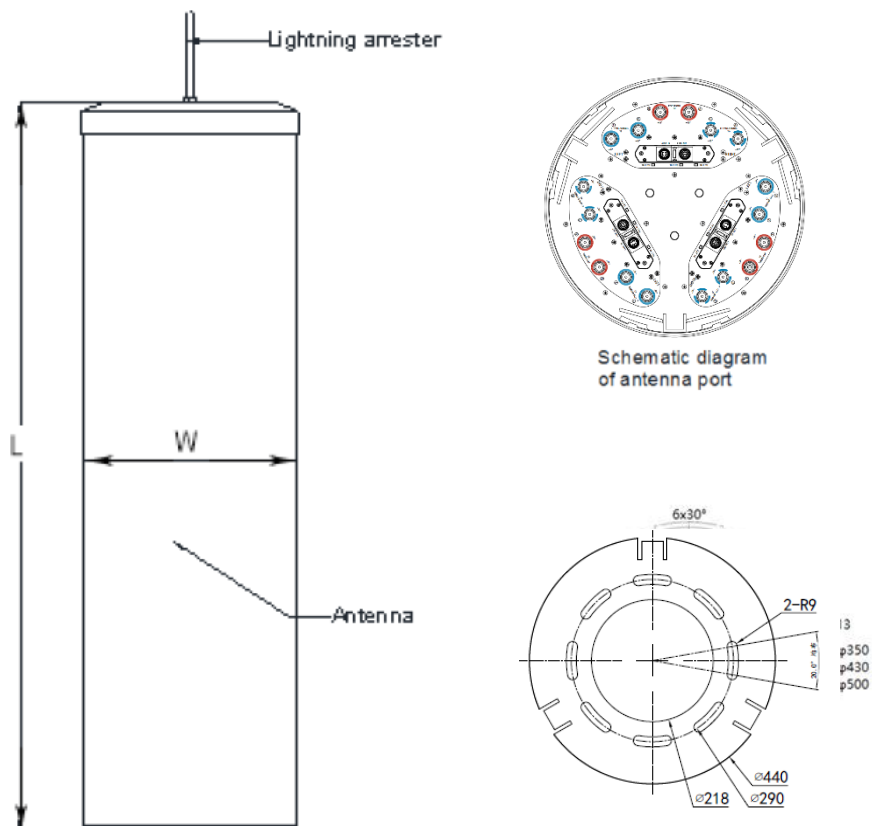
Step1, Install the lightning rod on the decorative cap and lock it

Step2, Use M10x35 bolts to connect the elevated frame to the antenna

Step3, Use M10x35 bolts to install the product to the pre-installed base, adjust the radiation angle and tighten the bolts, connect the feeder

Step4, Adjust the downward angle of the antenna and close the maintenance door

Step5, Complete the installation and clean up the site



AISG SPECIFICATION

Electrical data

Protocol	3GPP/ AISG1.1/ AISG2.0
Voltage rated	300V
Insulation DC resistance	$\geq 500\text{M}\Omega\cdot\text{km}$
Current rated	> 4A
Characteristic impedance	$100\pm 20\Omega$

Mechanical data

AISG connector A	8 PIN(5 available) DIN female, straight, IEC60130-9	
AISG connector B	8 PIN(5 available) DIN male, straight, IEC60130-9	
Braid	Aluminum alloy wire, coverage $\geq 85\%$	
Data wire	Twisted 2 cores 24AWG, bare copper stranded	
Power wire	3 cores 20AWG, bare copper stranded	
Insulation	PE	
Total conductors	5	
Jacket material	PVC (UV resistance), $7.5\pm 1.0\text{mm}$	
Color	Black	
Min. bending	80mm (single)	

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