

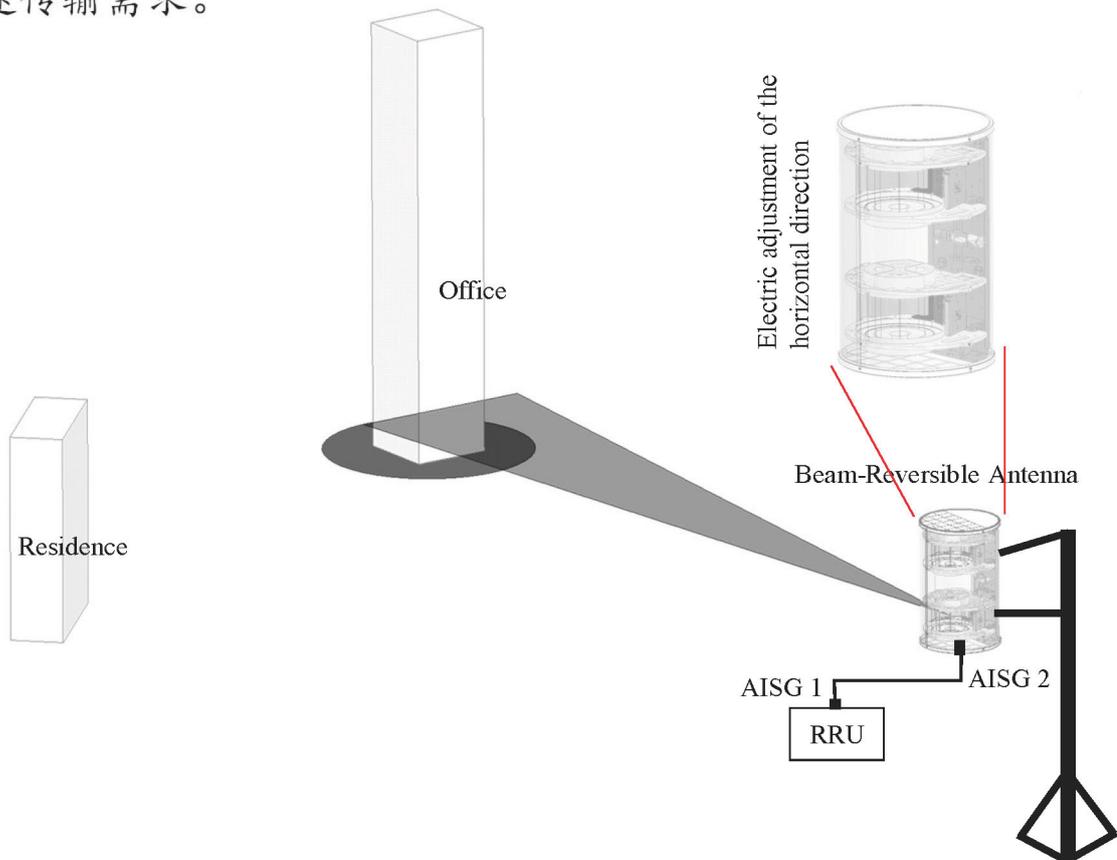


产品指标 Specification

‘Tidal Flow’ Hot-Spot Lens Antenna

The ‘tidal flow’ beam-reversible Luneburg lens antenna which combines the meta-material green lens antenna with the horizontal beam electric adjusting technique enables the radiation beam to autonomously follow the hot spot through the remote control via the standard AISG interface, thus provides a flexible and economic choice for the high data rate wireless connectivity.

“潮汐热点”波束可调龙伯透镜天线将盛路通信独创的水平方位角电调技术与绿色节能超材料透镜天线技术相结合，根据流量热点位置的变化，将辐射波束始终投送至热点区域，从而灵活地满足以上“潮汐流量”无线服务场景无线热点高速传输需求。



‘Tidal Flow’ Beam-Reversible LL
“潮汐热点”波束可调龙伯透镜天线

SL11027A

1710-2690 MHz 四端口水平波束指向电动调节透镜天线

1710-2690 MHz 4-port 16 dBi beam direction reversible lens antenna

Electric Parameters

频率范围Frequency range (MHz)	1710-2690
极化方式Polarization(°)	±45
水平方位角电动调角范围Electric adjustment range of horizontal beam direction (°)	-40~+40
水平方位角电动调角精度Electric adjustment accuracy of horizontal beam direction	±1
垂直面机械调角范围Mechanical downtilt range of vertical plane (°)	0~20
机械倾角精度Mechanical downtilt accuracy (°)	±1
增益Gain(dBi)	15.4±1.2
水平面半功率波束宽度Horizontal half power beam width (°)	27±5
垂直面半功率波束宽度Vertical Half Power Beam Width (°)	27±5
交叉极化比Cross polarization ratio (dB, 轴向)	≥16
交叉极化比Cross polarization ratio (dB, 3dB范围)	≥13
上旁瓣抑制Upper sidelobe suppression (dB)	≥13
前后比Front to back ratio (dB)	≥25
三阶互调Third-order intermodulation (dBm, @2x43dBm)	≤-107
电压驻波比VSWR	≤1.5
隔离度Isolation (dB)	≥25
端口阻抗Impedance (Ω)	50
防雷lightning protection	DC接地DC grounding
平均功率容量Average power capacity (W)	≥150

Mechanical Parameters

接头形式Connector type	4×7/16 DIN型母头
天线尺寸Antenna size (mm)	高度720, 直径Φ=450
包装尺寸Package size (mm)	1035×555×570
天线净重Net weight of antenna (kg)	21.8
安装架重量Weight of mounting frame (kg)	5.7
机械调整范围Mechanical adjustment range (°)	0~20
工作温度Working temperature (°)	-40~+70
相对湿度Relative humidity (%)	8~98
大气压强Atmospheric pressure (kPa)	70~106
承载风速Bearing wind speed (km/h)	200
迎风面积Windward area (m ²)	0.33
风载Wind load (N, @200km/h)	722
天线罩材料Wind borne radome material	玻璃钢FRP
抱杆直径Diameter of holding pole (mm)	Φ50~Φ110

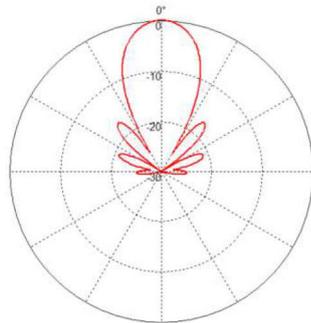
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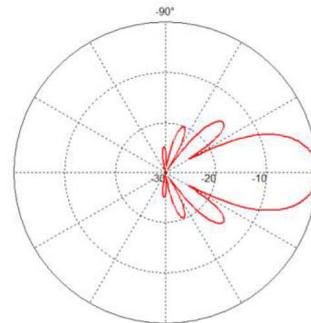
1710-2690 MHz 4-port 16 dBi beam direction reversible lens antenna

RET Parameters								
RET种类RET Category	Internal and replaceable							
RET 协议RET protocol	AISG2.0/3GPP							
输入电压Input voltage (V)	10-30 DC							
功耗Power waste (W)	<5w (工作) <1w (待机)							
校准时间Calibration time (s)	<40 (典型值)							
RET 接口RET interface	2 x 8 pin 接头(符合IEC 60130-9) 输入:阳头(Male)/输出:阴头(Female)							
AISG连接口AISG connector	1	2	3	4	5	6	7	8
	DC	n/c	RS-485B	n/c	RS-485A	DC	DC return	n/c
雷电保护Lightning Protection	3(10/350μs) 10(8/20μs)							

方向图(1800+FA)



水平面方向图
Horizontal pattern



垂直面方向图
Vertical pattern

