

Cylindrical antenna (3 sector)

Model: HX-T103A

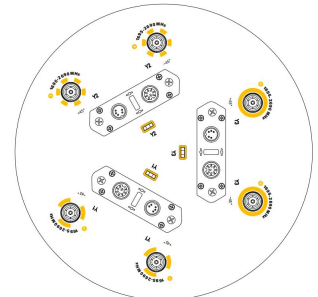


ELECTRICAL SPECIFICATIONS

Frequency Range (MHz)	Y1/Y2/Y3 (1695-2690)			
	1695-1990	1920-2180	2300-2400	2490-2690
Polarization	±45°			
Gain at mid tilts (dBi)	13.1	13.4	13.6	14.1
Gain over all tilts (dBi)	13±1	13.3±1	13.5±1	14±1
Horizontal 3dB beam width(°)	66±6	65±6	63±6	60±6
Vertical 3dB beam width(°)	16±2	15±2	12±1.5	11±1
Front to back ratio(dB)	≥24	≥24	≥25	≥25
Cross polar ratio(0°)(dB)	≥15	≥16	≥17	≥18
Upper side lobe suppression (dB)	≥15	≥16	≥16	≥15
Electrical Downtilt (°)	2-12			
Electrical Downtilt accuracy (°)	±1			
Ports VSWR	≤1.5			
Isolation: intra-system (dB)	≥25			
Isolation: inter-system (dB)	≥25			
Intermodulation IM3 (2×43dBm)	≤-150dBc			
Impedance (Ω)	50			
Max Input Power (W)	150			

MECHANICAL SPECIFICATIONS

Connector(s)	6×4.3-10 female
Connector position	Bottom
Antenna Dimensions (mm)	1000×Φ280
Packing Dimensions (mm)	1800×400×400
Mechanical Downtilt kits (°)	0-12
Radome Color	light gray
Radome Material	Fiberglass
Antenna weight (kg)	≤50
Packing weight (kg)	≤60
Wind Loading @ Velocity, frontal	233N@150 km/h
Wind Loading @ Velocity, lateral	233N@150 km/h
Wind Loading @ Velocity, rear	233N@150 km/h
Wind Speed,maximum	200 km/h
Operating temperature (°C)	-40~+60
Mounting Pipe Diameter (mm)	Φ50~Φ115
RET type	Replaceable Integrated RET



Guangdong HOSENC Communication Technology Co., Ltd®

Address: No. 100, South Sanshui Avenue, Baini Town, Sanshui District, Foshan City, Guangdong Province

危险 Dangerous:

- 高空作业时，操作人员一定要系好安全带，戴好安全帽。
When working high above the ground, the operator must wear safety belts and helmet.
- 请穿鞋套和橡胶底的鞋子。请穿长袖衬衫和橡胶手套的防护服。
Wear shoes with rubber soles and heels. Wear protective clothing including a long-sleeved shirt and rubber gloves.
- 请勿在雷雨、大风天气或者所在区域有闪电或者雷声时安装。请勿使用金属梯子。
Do not install on a wet or windy day or when lightning or thunder is in the area. Do not use metal ladder.
- 请勿安装在电源线路附近。电源线、电话线和拉线外皮相似，但用导线颜色能区分出来。
Do not install near power lines. Power lines, telephone lines, and guy wires look the same. Assume any wire or line can electrocute you.

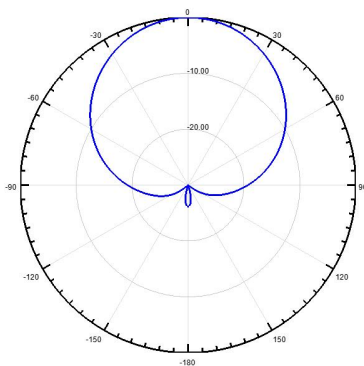
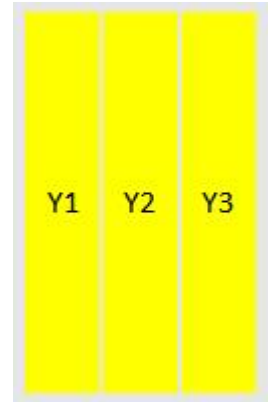
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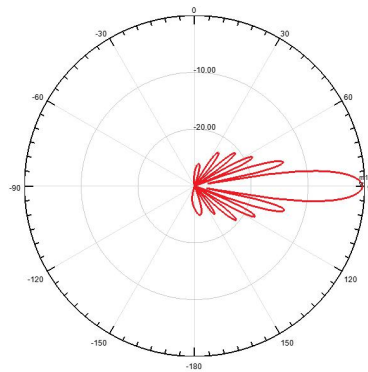


Integrated RET Properties

RET type	Replaceable Integrated RET
RET protocol	AISG 2.0/3GPP
Power supply(V)	10-30 DC
Power consumption(W)	≤0.6(Idle, 12V), ≤6(in Motion, 12V)
Adjustment time (Full Range)	≤4Mins
Adjustment cycles	> 50,000
Temperature range(°C)	-40~65
Lightning protection	3KA(8/20μs) @ Pin5& Pin3; 5KA(8/20μs) @ Pin1/ Pin6& Pin7
Connectors	2 x 8 Pin circle connector according To IEC 60130-9 And AISG. Daisy chain in: Male, Daisy chain out : Female Pin1: 12V; Pin3: RS485B; Pin5: RS485A; Pin6: 10-30V; Pin7: GND; Pin2 & Pin4 & Pin8: N/C



H Pattern



E Pattern

Ant Array	RET Unique ID
Y1	HXT103A0N25K00001Y1
Y2	HXT103A0N25K00001Y2
Y3	HXT103A0N25K00001Y3

http://www.hosenc.com/page109?product_id=79



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