

Description

The ME A-868-ISM is a high gain & efficiency antenna to be used for 868MHz wireless applications. This external mount rugged antenna is ideal for high-performance outdoor or indoor applications. It is designed for IoT, Telematics and remote metering mesh installations and systems. The high efficiency and gain along with the Omni-directional properties provide this antenna a consistent and stable long-range connectivity with high throughput data to devices for 868MHz needs.

The antenna housing consists of black UV-resistant rugged plastics and a heavy-duty metal base for optimal installations. The cable & connector are customizable.

Electrical Specification

Parameter	Specification
Frequency Range	863-870 MHz
Band	868 MHz
Return Loss	-30 dB
VSWR	1.1:1
Efficiency	71%
Peak Gain	2.5 dBi
Average Gain	-1.4 dB
Impedance	50 Ω
Polarization	Linear
Radiation Pattern	Omni-Directional

Mechanical Specification

Parameter	Specification
Antenna Dimensions	80 x 76 x 13 mm
Operating Temperature	-40°C to + 85°C
Mounting Type	Screw Mount
Connector	SMA-Male Standard (Other Connectors Available)
Cable Type	D302 Standard
Radome Type	ABS UV Stable
Radome Color	Black or White
Substance Compliance	RoHS
Certificates	IP67, IP69

*Mounted on 30 x 30 x 0.25 cm ABS Plate



Features

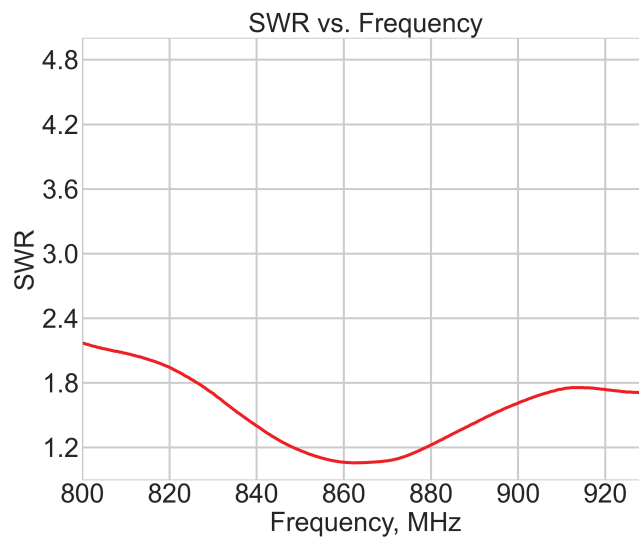
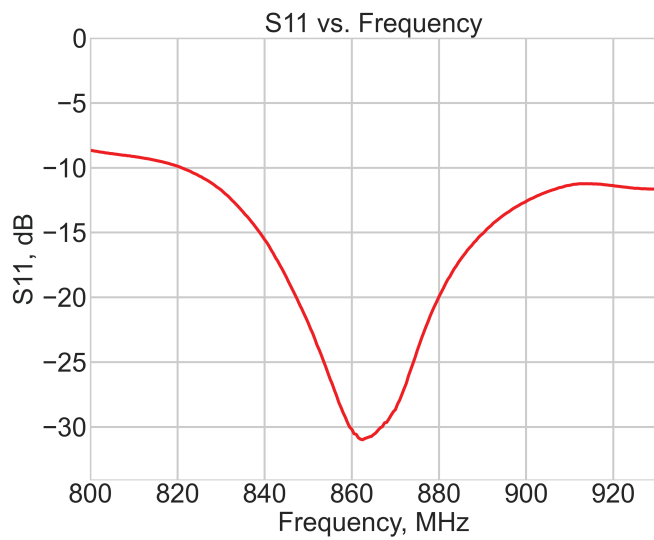
- 868 MHz ISM LoRa band antenna
- Screw Mount
- Anti-Rotation Mechanism
- Ground Plane Independent
- Customizable Cable and Connector
- Low Profile
- IP67, IP69K

Applications

- Remote mesh networks
- Smart meters
- IoT
- Public Safety



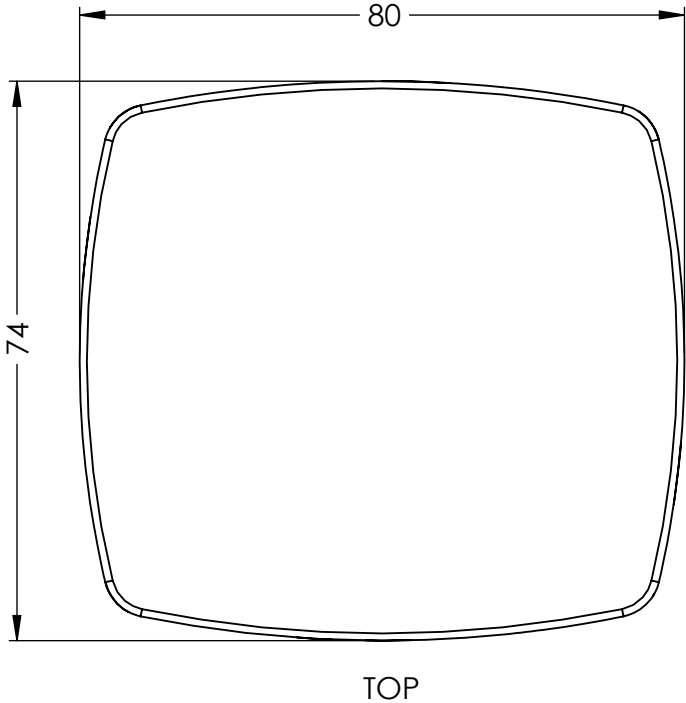
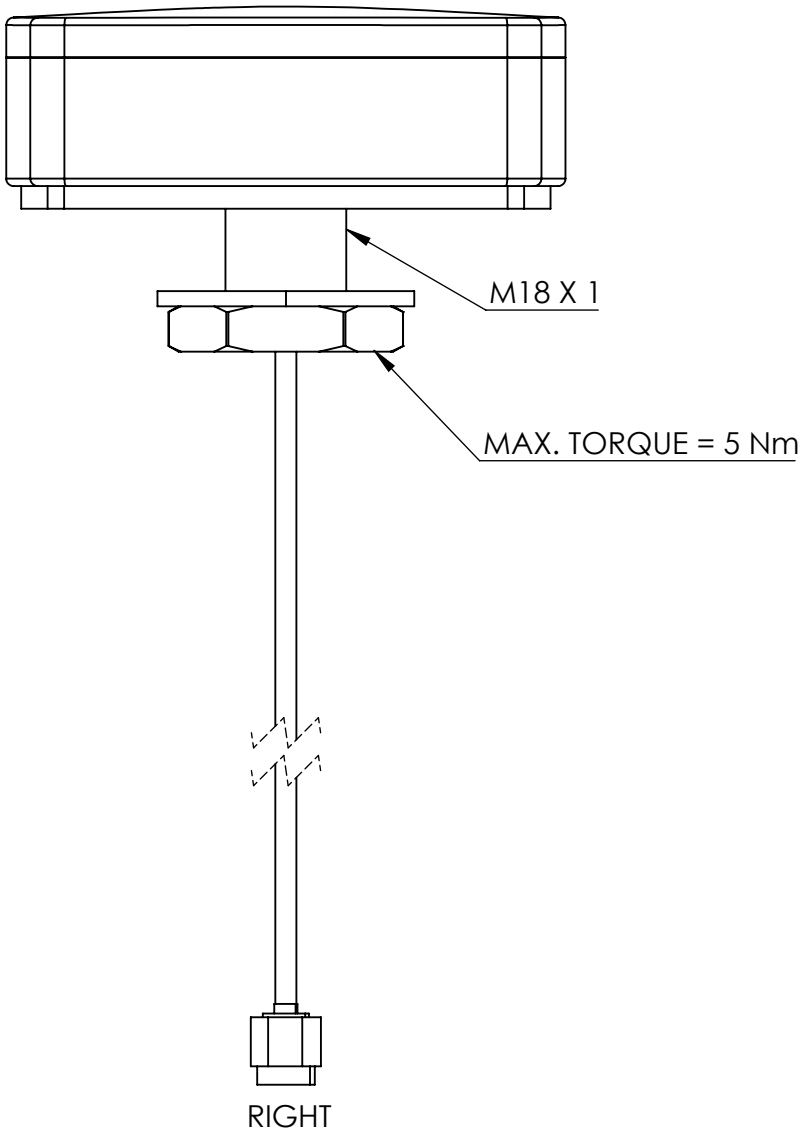
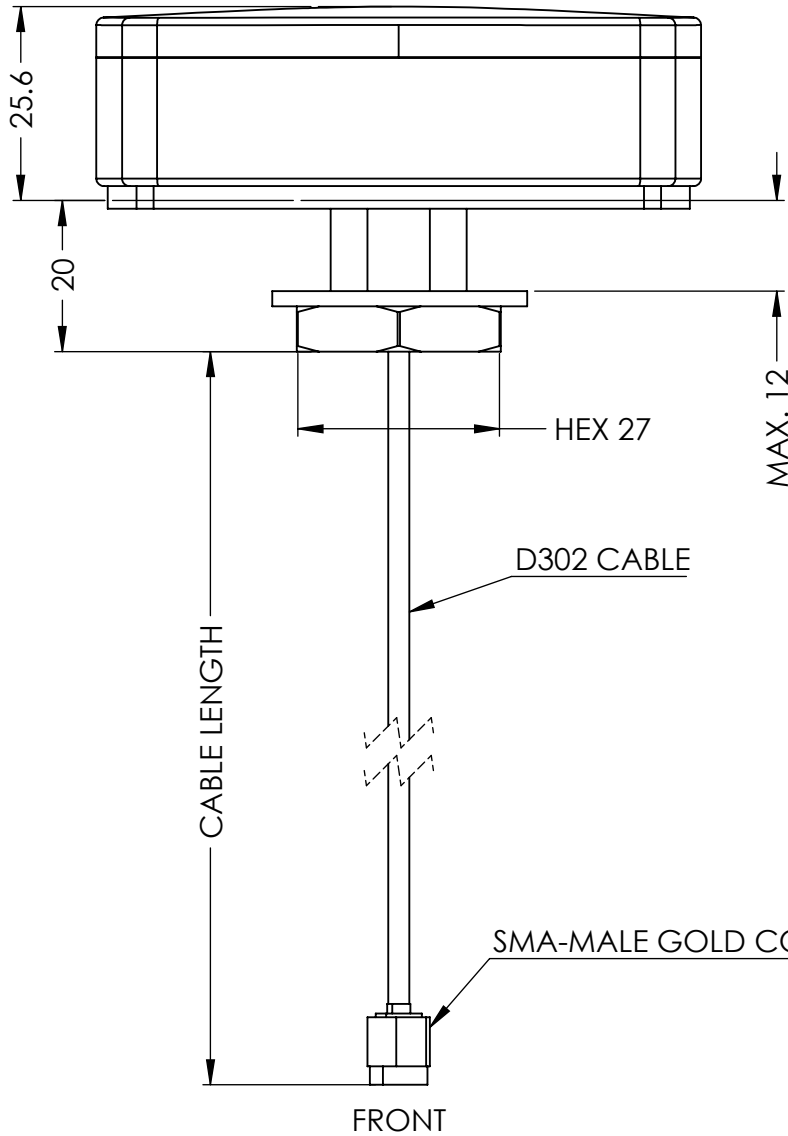
Maxtena Inc.
7361 Calhoun Place, Suite 102
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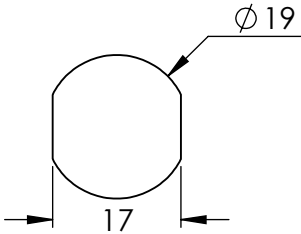
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- NOTES:
1. FREQUENCY: (SIGFOX, LORA, ZIGBEE, ISM, RFID) 863-870 MHz
 2. DIMENSIONS ARE AFTER MOUNTING
 3. CUSTOMIZABLE CABLE AND CONNECTOR TYPE
 4. MOUNTING TYPE: SCREW MOUNT
 5. MAX MOUNTING THICKNESS: 12 mm
 6. MATERIALS:
 - RADOME: ABS UV STABLE
 - RADOME COLOR: BLACK or WHITE
 7. OPERATING TEMPERATURE: -40°C ~ +85°C
 8. STORAGE TEMPERATURE: -40°C ~ +85°C
 9. CERTIFICATES: IP67, IP69

DRAWING REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2021-08-30	JET



MOUNTING HOLE:



ITEM 100-00198 REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2021-08-30	JET

100-00198 CONFIGURATION TABLE				
DASH NO	CABLE TYPE	CABLE LENGTH	CONNECTOR TYPE	RADOME COLOR
-01	D302	2 m	SMA-MALE GOLD	BLACK

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± .5° BEND ± ONE PLACE DECIMAL ± 1.0 TWO PLACE DECIMAL ± .50	DRAWN	JET	2021-08-30
	CHECKED	ZX	2021-08-30
	ENG APPR.	NPC	2021-08-30
	MFG APPR.		
INTERPRET GEOMETRIC TOLERANCING PER:		Q.A.	
		CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.	
THIRD ANGLE PROJECTION			
DO NOT SCALE DRAWING			

MAXTENA, INC

TITLE:

100-00198
MEA-868-ISM

SIZE B	DWG. NO. 117-00499-01	REV A
CAGE CODE: 5KQH7		SHEET 1 OF 1

SCALE: NONE