

Outdoor Enclosure with 5GHz 19dBi Panel Antenna



Model: MME-5N19

KEY FEATURES

- Weatherproof IP67 Enclosure
- 19dBi Long Distance Antenna


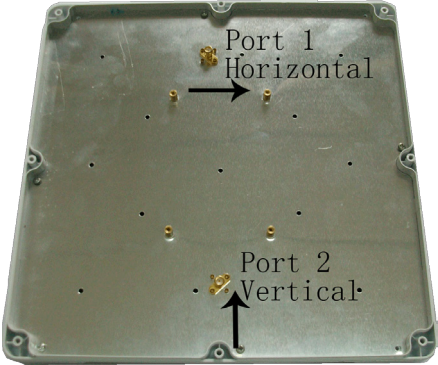
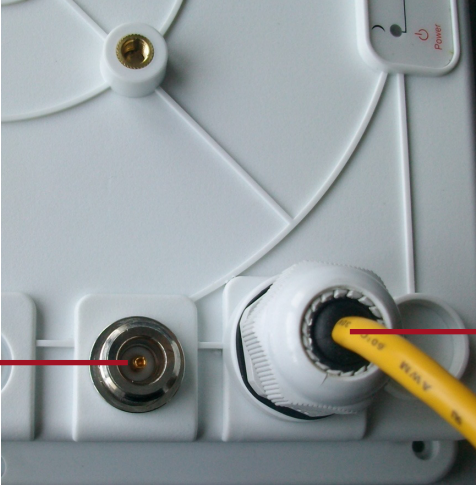
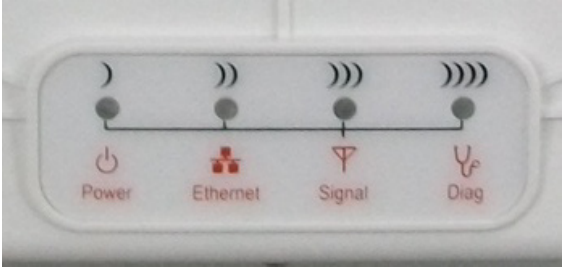
APPLICATIONS

- Outdoor Long Distance Point-to-Point (PtP) AP
- Point-to-MultiPoint (PtMP) AP
- Outdoor Mesh AP

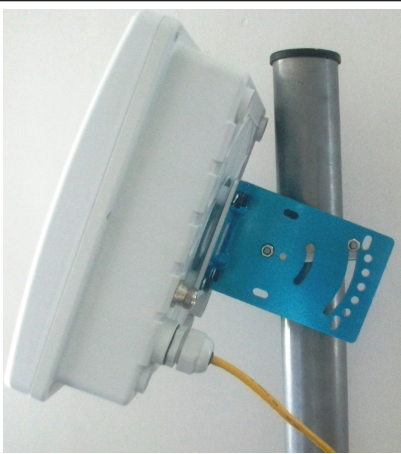

Enclosure Specifications

Material	ABS/PC, Flame Retardant, UV resistant
Color	White
Weight	1.2kg
Outside Dimensions (H x W x D)	257mm x 257mm x 86mm
Inside Dimensions (H x W x D)	236mm x 236mm x 60mm
Integrated Antenna	5GHz 19dBi panel antenna
Ethernet Interface	2x IP67 Waterproof RJ45 jack (Second jack optional, depends on ordering configuration)
Connectors	4x N-Type Connectors (Optional, not in default package)
Casing	Weatherproof Structure
Rating of Enclosure	IP67
Mounting	Pole Mount or Wall Mount
Grounding Terminal	Built-in Grounding Terminal

Features and Illustrations

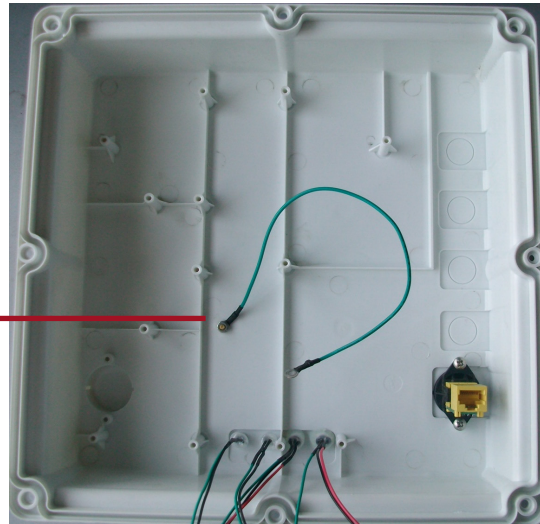
Features	Illustrations
<p>Enclosure</p>	
<p>Inside View of the Front showing the Antenna Port Orientation</p>	
<p>Waterproof Cable Gland for RJ45 (IP67) and N-Type Connector for External Antenna (Optional)</p>	 <p>N-Type Connector</p> <p>Waterproof RJ45 jack</p>
<p>LED (Signal Strength and AP functions dual color/purpose)</p>	

Features and Illustrations

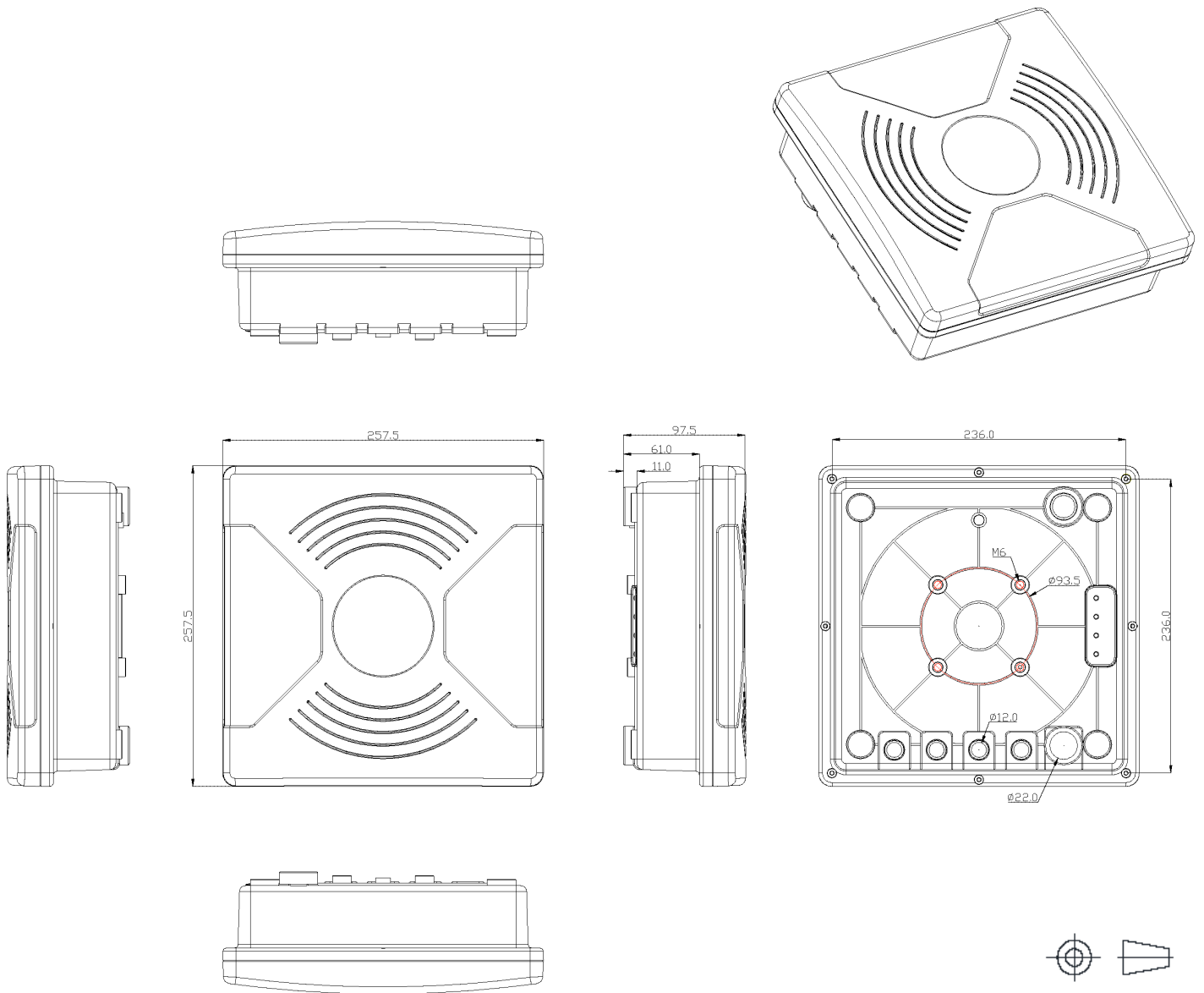
Features	Illustrations	
Enclosure	 <p data-bbox="662 824 853 855">Up-Tilt (Max 25°)</p>	 <p data-bbox="1157 824 1380 855">Down-Tilt (Max 25°)</p>

Inside View of the Back showing the Grounding Terminal

Grounding Terminal



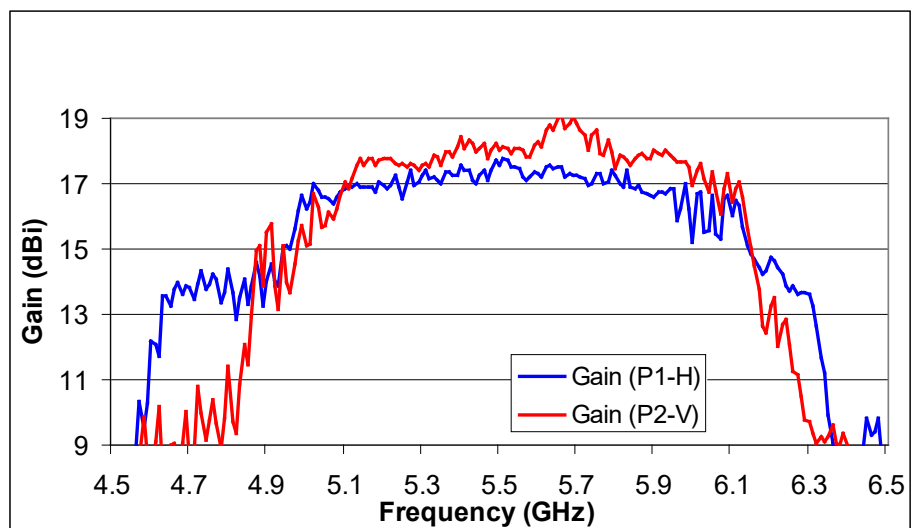
Dimensional Drawing



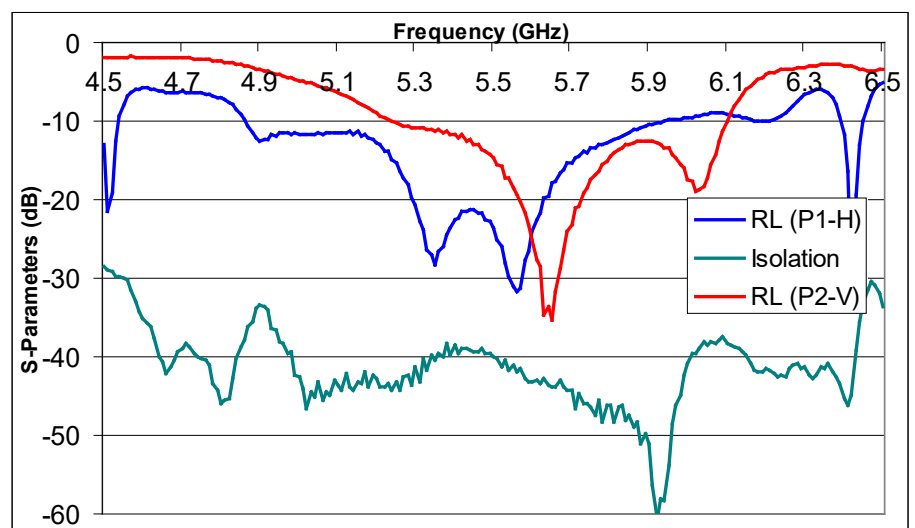
Antenna Element Specifications

Gain	19dBi
Radiation	Directional
Connectors	2x U.FL or MMCX Antenna Connectors
Frequency Range	5.1 ~ 5.9 GHz
Polarization	Dual Polarization
Azimuth -3dB Beamwidth	Horizontal (Port 1) : 17 degrees, Vertical (Port 2) : 17 degrees
Elevation -3dB Beamwidth	Horizontal (Port 1) : 17 degrees, Vertical (Port 2) : 17 degrees
Isolation	40dB (Min)
Front-to-Back Ratio	25dB (Min)
VSWR	Horizontal (Port 1) : < 1.87:1, Vertical (Port 2) : < 2.00:1
Cross Polarization Isolation	27dB (Min)
SideLobe	< -12dB
Dimensions of antenna PCB (H x W x D)	180mm x 180mm x 0.5mm
Dimensions of metal ground plane reflector (H x W x D)	250mm x 250mm x 1mm

Gain Plot

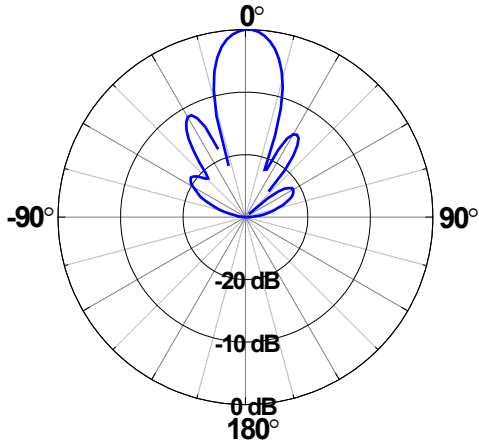


S-Parameters Graph:
Return Loss
and Isolation

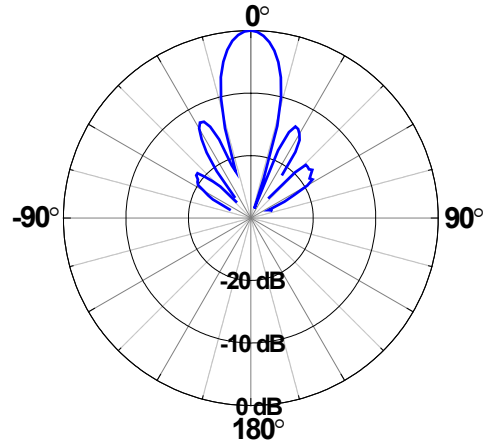


Antenna Element Specifications

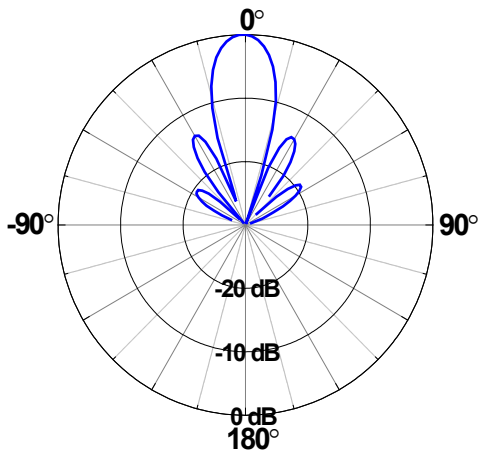
Polar Plots (At 5.6 GHz)



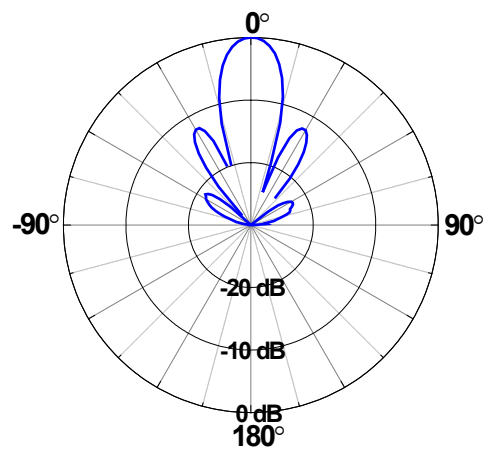
H-Pol Azimuth (Port 1 - H)



H-Pol Elevation (Port 1 - H)



V-Pol Azimuth (Port 2 - V)



V-Pol Elevation (Port 2 - V)

Enclosure Model Matrix

Enclosure Size	Pre-Config Enclosure	19dBi Antenna	1x N-Type Connectors	4x N-Type Connectors	Vented Enclosure	Earthing Terminal	Model Name
257 x 257 x 86 mm	✓		✓			✓	MME-RJ45CN-1N
	✓	✓				✓	MME-5N19
	✓			✓		✓	MME-RJ45CN-4N

Ordering Information

Codes	19dBi Antenna	1x N-Type Connector	4x N-Type Connector
MME-RJ45CN-1N		✓	
MME-5N19	✓		
MME-RJ45CN-4N			✓