





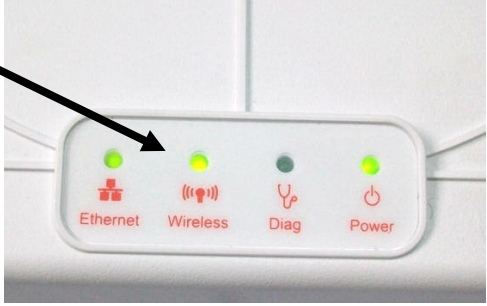
## Outdoor Solution


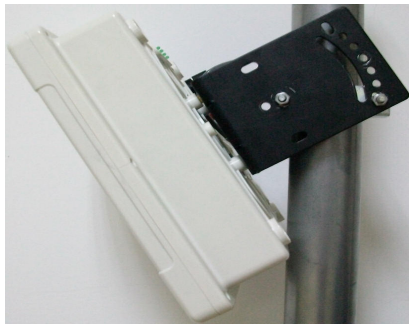
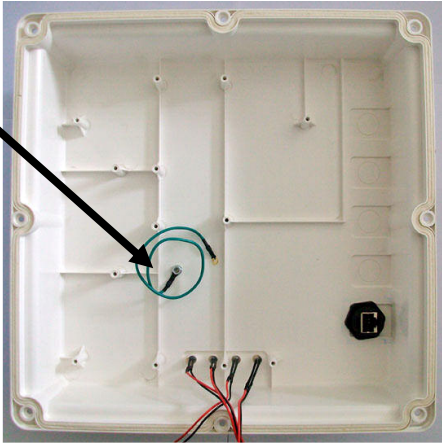
# MIMOStation MMS

### Enclosure Specifications <sup>①</sup>

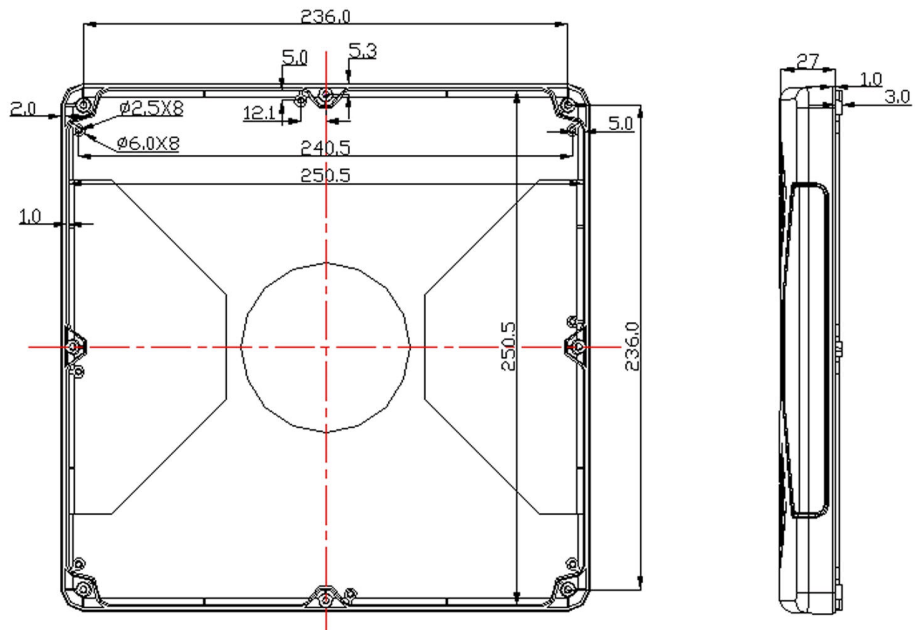
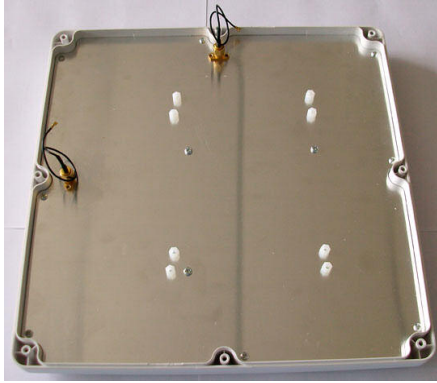
Enclosure Material	ABS VO
Enclosure Color	White
Weight	Approx. 1.2Kg
Outside Dimensions	257mm x 257mm x 86mm
Inside Dimensions	236mm x 236mm x 60mm
Integrated Antenna	Integrated dual polarization grid antenna
Ethernet connectivity	CAT5 with waterproof cable gland
Connector	4 x N-Type Connector (Optional) <sup>②</sup> 1 x M12 Hole with Membrane Vent (Optional) <sup>②</sup>
Rating of Casing	IP67
Mounting	Pole Mount or Wall Mount
Ground Terminal	Build in Ground Terminal

### MMS with integrated 14dBi/ 16dBi Antenna

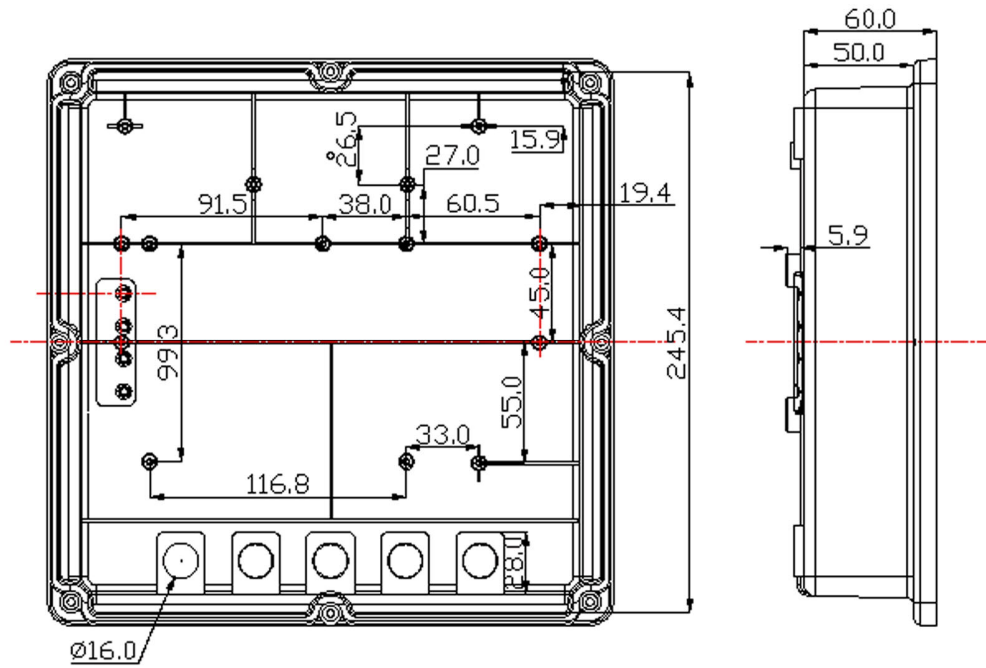
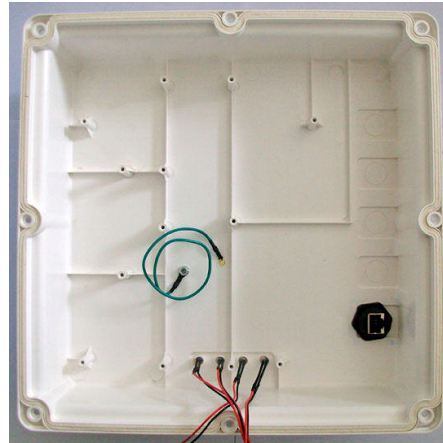
Features	Illustrations
<b>Enclosure</b>	
<b>Waterproof Cable Gland for RJ45 (IP67) &amp; N-Type Connector for External Antenna (Option)</b>	 <p>Waterproof Cable Gland</p> <p>N-Type Connector</p>
<b>LED (Ethernet/Wireless /Diag/Power indicators)</b>	 <p>LED</p> <p>Ethernet Wireless Diag Power</p>

<p><b>Swiveling of Antenna</b></p>	 <p>Swivel Up (Max 25 °)</p>	 <p>Swivel Down (Max 25 °)</p>
<p><b>Ground Terminal</b></p>	 <p>Ground Terminal</p>	

**Inside View  
(Top):**



**Inside View  
(Bottom):**



### Specifications for 14dBi 2.4GHz Antenna

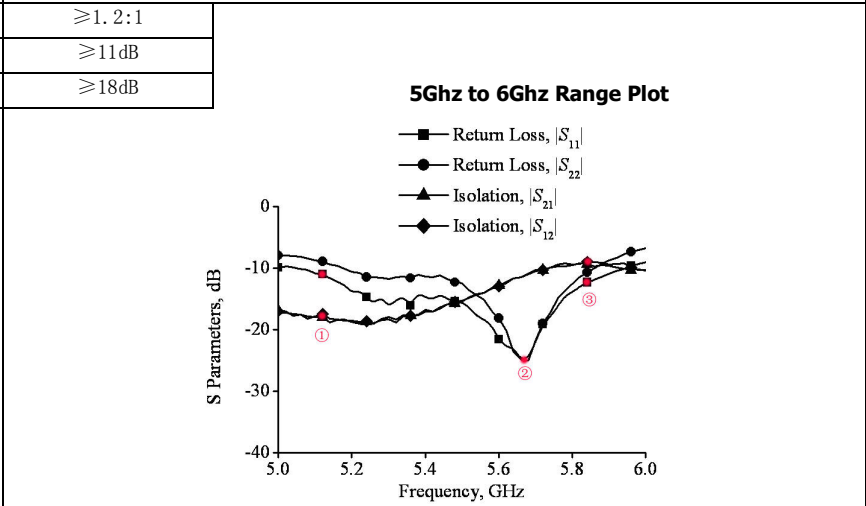
<b>Gain</b>	14dBi	
<b>Radiation</b>	Directional	
<b>Frequency Range</b>	2.4 2.5GHz	
<b>Polarization</b>	Dual – Polarization	
<b>Horizontal -3dB Beamwidth</b>	30 degrees	
<b>Vertical -3dB Beamwidth</b>	30 degrees	
<b>Front-to-Back Ratio</b>	>25 dB	
<b>VSWR</b>	≥1.22:1	<div style="text-align: right; margin-bottom: 5px;"><b>2.2GHz to 2.8GHz Range Plot</b></div> <ul style="list-style-type: none"> <li>—■— Return Loss, <math> S_{11} </math></li> <li>—●— Return Loss, <math> S_{22} </math></li> <li>—▲— Isolation, <math> S_{21} </math></li> <li>—◆— Isolation, <math> S_{12} </math></li> </ul>
<b>Return Loss</b>	≥10dB	
<b>Port to Port Isolation</b>	≥17dB	
<b>Return Loss &amp; Isolation Plot</b>		
<b>Radiation Pattern</b>	<div style="text-align: right; margin-bottom: 5px;">             — Azimuth-Plane, Co-pol              - - - Elevation-Plane, Co-pol  <math>f = 2.45 \text{ GHz}</math> </div>	

## Specifications for 16dBi 5GHz Antenna

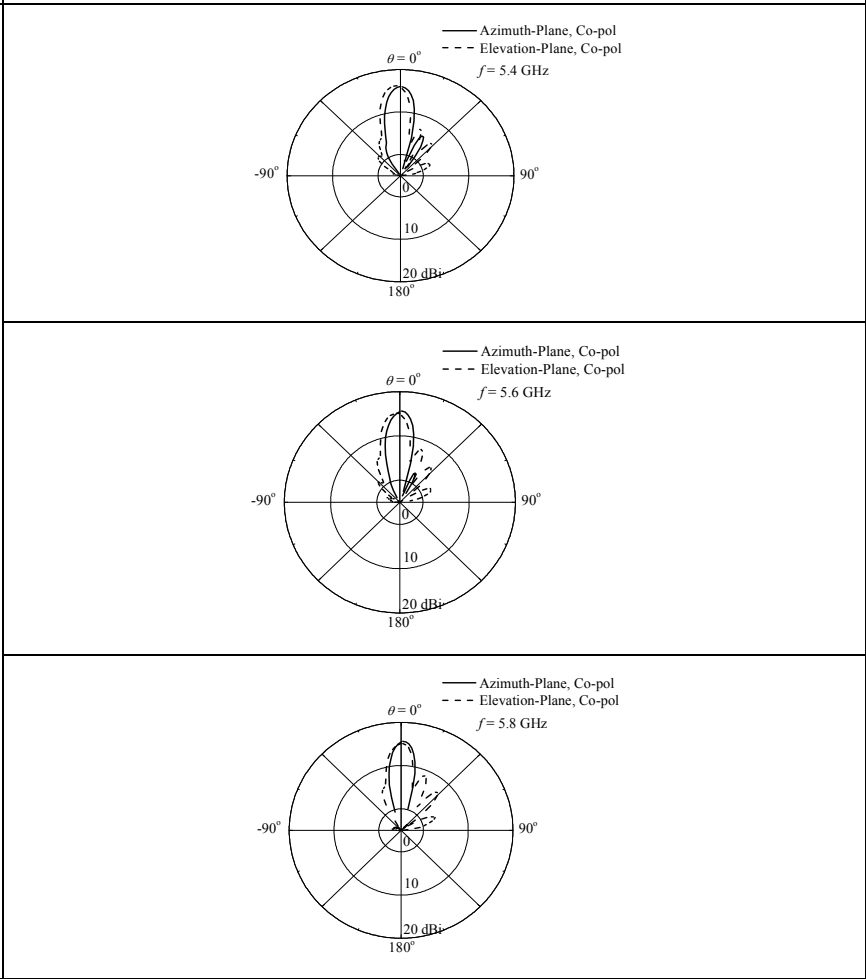
<b>Gain</b>	16dBi
<b>Radiation</b>	Directional
<b>Frequency Range</b>	5.45-5.85 GHz
<b>Polarization</b>	Dual – Polarization
<b>Horizontal -3dB Beamwidth</b>	18 degrees
<b>Vertical -3dB Beamwidth</b>	18 degrees
<b>Front-to-Back Ratio</b>	>25 dB

<b>VSWR</b>	≥ 1.2:1
<b>Return Loss</b>	≥ 11dB
<b>Port to Port Isolation</b>	≥ 18dB

**Return Loss & Isolation Plot**



**Radiation Patterns**



## MME Enclosure Matrix<sup>③</sup>

Model Name	Pre- Config Enclosure	16dBi Antenna	14dBi Antenna	1 x N-Type Connectors	4 x N-Type Connectors	Vented Enclosure	Ground Terminal	Enclosure Size
MME-5G16	✓	✓					✓	257 mm x 257 mm x 86mm
MME-2.4G14	✓		✓				✓	
MME-RJ45CG-1N	✓			✓			✓	
MME-RJ45CG-4N	✓				✓		✓	

## Ordering Configurations<sup>④</sup>

Code	Integrated Antenna	MME Enclosure	Board	Radio card	Radio Output	Carton Dimensions
MMS N2-20	14dBi 2.4GHz	MME-2.4G14	PCBA-WP543	WLM200N2	20dBm	For 5 pcs/carton, 0.72m*0.36m*0.36m/0.006=16KG
MMS N2-26	14dBi 2.4GHz	MME-2.4G14	PCBA-WP543	WLM200N2-26	26dBm	
MMS NX-18	16dBi 5GHz	MME-5G16	PCBA-WP543	WLM200NX	18dBm	
MMS N5-24	16dBi 5GHz	MME-5G16	PCBA-WP543	WLM200N5-24	24dBm	

① Specifications are subjected to change without notice

② Item is not provided in default package

③ MME is the abbreviation of MIMO Enclosure.

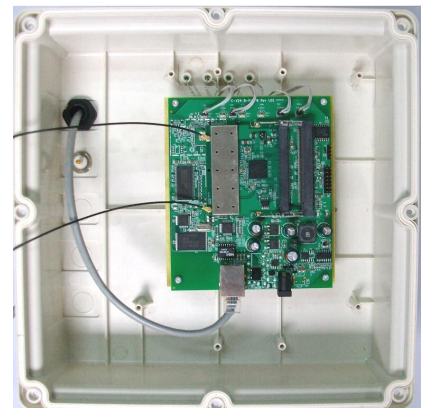
④ Please contact Compex sales representative for other available configurations

## MMS Configuration Example

MIMO Station with Compex WP543 Access Point

- WP543 CPU host board
- Compex WLM series 11N wireless cards  
(WLM200N2, WLM200N5-24, WLM200N2-26)
- 4 x LED cable
- 1 x RJ45 Cable gland
- 2 x SMA Connector Cable with Ufl ( default ) /MMCX
- 1 x N type connector (Maximum 4 x)<sup>②</sup>
- 16dBi 5GHz Antenna or 14dBi 2.4GHz Antenna

Note: Real products may be different from reference design shown here.  
Please contact Compex sales representative for customization.



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