

# **SmartAnt Telecom Co., Ltd.**

## **SmartAnt Antenna**

# SmartAnt Antenna

Omni Antenna-----	(page 4)
Ceiling Antenna-----	(page 27)
Sector Antenna-----	(page 31)
Directional Antenna-----	(page 33)
MIMO Antenna-----	(page 45)
Wi-Fi 6E / Wi-Fi 7 Antenna-----	(page 60)
Blade Antenna-----	(page 63)
Beam Steering Smart Antenna-----	(page 67)
Vehicle Antenna -----	(page 69)
Sub-6GHz 3G/4G/5G NR -----	(page 71)
Wi-Fi 802.11ah(Wi-Fi HaLow) Antenna--	(page 96)
Other Antenna-----	(page 99)
1. Microwave Sensor -----	(page 115)
2. Surge Arrestor -----	(page 117)
3. Enclosure Design Concept -----	(page 118)

# Change History-2022~2023

Version	Description	Date
1.	1. Wi-Fi 6E Antenna chapter changed to Wi-Fi 6E / Wi-Fi 7 Antenna 2. New increase P21~P22:SAA22-20026/SAA22-200270 3. New increase P74:SAA22-440330 4. New increase P75:SAA22-450310 5. New increase P79:SAA22-190410	Dec.2022
2.	1.Cancel P32 SAA04-050030,SAA04-050290,SAA11-050270 2. Cancel P33 SAA04-050980,SAA04-202140 3. Cancel P35 SAA04-053830,SAA04-050310,SAA04-053970 4. Cancel P36 SAA04-053790,SAA04-053890 5. Cancel P37 SAA05-121080,SAA05-121090,SAA05-121120 6. Cancel P38 SAA04-200010,SAA04-200020,SAA04-202090 7. Cancel P39 Repeat P38 8. Cancel P64 SAA22-220100 9. Cancel P69 SAA20-050150,SAA20-050180,SAA20-120140 10. Cancel P70 SAA20-200160,SAA21-200060,SAA22-20130 11. Cancel P71 SAA20-220170,SAA21-430030,SAA21-430040 12. Cancel P74 SAA22-440380 13. Cancel P93 SAA05-121080,SAA05-121090,SAA05-121120 14. Cancel P100 SAA20-330340, P101 SAA20-330350 15. Cancel P107 SAA20-410360 16. Cancel P108 SAA21-430140	Mar.2023

# Indoor Omni Antenna

---



**2.4 GHz Omni Antenna**

**5 GHz Omni Antenna**



**2.4/5 GHz Omni Antenna**

**LTE Omni Antenna**



# Indoor 2.5 GHz Omni Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	4	SAA07-050180	Freq. : 2500 – 2700 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 46° Connector : RP SMA Plug Dim : 19*39*127 mm	
	4.5	SAA04-050350	Freq. : 2400 – 2500 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 40° Connector : RP SMA Plug Dim : φ13.5*189 mm	




# Indoor 5 GHz Omni Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	5	SAA04-20035A	<p>Freq. : 5150 – 5875 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 30°            Connector : RP SMA Plug            Dim : <math>\phi</math>13.5*189 mm</p>	
	8	SAA05-200670	<p>Freq. : 4900 - 5875 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 12°            Connector : RP SMA Plug            Dim : 219*23*14 mm</p>	

# Indoor 2.4/5 GHz MHz Omni Antenna



Photos	Gain (dBi)	Part Number	Spec.	Remark
	2	SAA05-220420	Freq. : 2400 - 2500 MHz 4900 - 5875 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 80° Connector : RP SMA Plug Dim : 10*35.3*102 mm	
	3.6/6	SAA06-220960	Freq. : 2400 - 2500 MHz 5150 - 5875 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 50° / 25° / 25° Connector : RP SMA Plug Dim : 19*39*127 mm	

# Indoor LTE MHz Omni Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	3 / 2	SAA10-150290	Freq. : 824 - 960 MHz 1710 - 2170 MHz VSWR : 3.5:1 Max.,3.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 80° / 90° Connector : SMA Plug Dim : 19*39*127 mm	
	3 / 2	SAA18-150110	Freq. : 824 - 960 MHz 2400 - 2500 MHz VSWR : 3.5:1 Max.,2.5:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : Connector : SMA Plug Dim : 19*39*127 mm	
	2/6/3	SAA14-330530	Freq. : 700 - 850 MHz 1710 - 2170 MHz 2500 - 2700MHz VSWR : 3.5:1/3.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 46° Connector : RP SMA Plug Dim : 19*39*127 mm	



# Indoor LTE MHz Omni Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	2/6/3	SAA14-330530	Freq. : 700 - 850 MHz 1710 - 2170 MHz,2500-2700MHZ VSWR : 3.5:1/3.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 46° Connector : RP SMA Plug Dim : 19*39*127 mm	
	5	SAA07-120120	Freq. : 3400 - 3600 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 40° Connector : SMA Plug Dim : 19*39*127 mm	

# Outdoor Omni Antenna

---

**2.4 GHz Omni Antenna**




**3.5 GHz Omni Antenna**

**5.8 GHz Omni Antenna**




**2.4/5 GHz Omni Antenna**

**LTE Antenna**




# Outdoor 2.4 GHz Omni Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	5	SAA04-050170	Freq. : 2400 - 2500 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 32° Connector : SMA Plug Dim : φ19*330 mm	
	8	SAA04-050280	Freq. : 2400 - 2500 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 15° Connector : N Jack Dim : 80*78*520 mm	
	5	SAA04-051000	Freq. : 2400 - 2500 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 30° Connector : N plug Dim : φ21*322 mm	




# Outdoor 2.4 GHz Omni Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	6	SAA04-054190	Freq. : 2400 - 2500 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 30° Connector : N Jack Dim : 80*78*335 mm	
	5	SAA04-053800	Freq. : 2400 - 2500 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 30° Connector : RP N Plug Dim : 322*21 mm	
	5	SAA04-052160	Freq. : 2400 - 2500 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 25° Connector : RP N plug Dim : φ22*183 mm	




# Outdoor 2.4 GHz Omni Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	8	SAA07-050850	<p>Freq. : 2300 - 2700 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 15°            Connector : N Jack            Dim : 582*78*80 mm</p>	
	10	SAA07-050860	<p>Freq. : 2300 - 2700 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 10°            Connector : N Jack            Dim : 1175*78*80 mm</p>	
	8	SAA04-053810	<p>Freq. : 2400 - 2500 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 15°            Connector : RP N plug            Dim : 510*21φ mm</p>	




# Outdoor 2.4 GHz Omni Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	5	SAA04-054160	Freq. : 2400 - 2500 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 30° Connector : N Jack Dim : 30*335 mm	
	8	SAA04-054270	Freq. : 2400 - 2500 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 15° Connector : N Plug Dim : φ21*510 mm	
	9.5	SAA05-050060	Freq. : 2400 - 2500 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 10° Connector : N Jack Dim : 80*78*870 mm	

# Outdoor 2.4 GHz Omni Antenna



Photos	Gain (dBi)	Part Number	Spec.	Remark
	8	SAA05-050280	<p>Freq. : 2400 - 2500 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 15°            Connector : N Female            Dim : 80*78*583 mm</p>	
	8	SAA05-054270	<p>Freq. : 2400 - 2500 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 15°            Connector : N Plug            Dim : φ21*580 mm</p>	
	6	SAA14-050010	<p>Freq. : 2400 - 2500 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 23°            Connector : N Plug            Dim : φ22*308.5 mm</p>	

# Outdoor 3.5 GHz Omni Antenna




Photos	Gain (dBi)	Part Number	Spec.	Remark
	8	SAA05-120050	Freq. : 3400 - 3700 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 13° Connector : N Jack Dim : 425*80*78 mm	
	10	SAA05-120870	Freq. : 3300 - 3500 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 9° Connector : N Jack Dim : 675*80*78 mm	
	10	SAA05-120940	Freq. : 3400 - 3600 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 9° Connector : N Jack Dim : 80*78*675 mm	






# Outdoor 3.5 GHz Omni Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	8	SAA05-121020	Freq. : 3500 - 3800 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 13° Connector : N Jack Dim : 80*78*425 mm	
	8	SAA05-121040	Freq. : 3300 - 3600 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 13° Connector : N Jack Dim : 80*78*425 mm	




# Outdoor 5.8 GHz Omni Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	8	SAA04-200180	<p>Freq. : 5500 - 5825 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 12°            Connector : N Jack            Dim : 80*78*373 mm</p>	
	10	SAA04-200280	<p>Freq. : 5500 - 5825 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 7°            Connector : N Jack            Dim : 80*78*520 mm</p>	
	10	SAA05-200860	<p>Freq. : 5500 - 5825 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 7°            Connector : N Plug            Dim : φ21*513 mm</p>	


# Outdoor 5.8 GHz Omni Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	8	SAA04-202130	<p>Freq. : 4900 - 5350 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 12°            Connector : N Plug            Dim : <math>\phi</math>21*325 mm</p>	
	8	SAA05-200180	<p>Freq. : 4900 - 5350 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 12°            Connector : N Jack            Dim : 80*78*373 mm</p>	
	10	SAA05-200360	<p>Freq. : 4900 - 5100 MHz            VSWR : 1.7:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 7°            Connector : N Jack            Dim : 80*78*511 mm</p>	




# Outdoor 5.8 GHz Omni Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	8	SAA14-200020	<p>Freq. : 5150 - 5875 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 12°            Connector : N Plug            Dim : φ22*308.5 mm</p>	
	7	SAA17-200040	<p>Freq. : 4900 - 6000 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 20°            Connector : N Plug            Dim : φ22*183 mm</p>	
	10	SAA22-200260	<p>Freq. : 5100 - 5900 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 7-10°            Connector : N Jack            Dim : 80*78*520 mm</p>	




# Outdoor 5.8 GHz Omni Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	10	SAA22-200270	Freq. : 5100 - 5900 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 7-10° Connector : N Plug Dim : φ22*513 mm	


# Outdoor 2.4/5.8 GHz Omni Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	8 / 8	SAA05-220470	Freq. : 2400 – 2500/4900-5470 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 15° Connector : N Jack Dim : 80*78*870 mm	
	8 / 8	SAA05-220480	Freq. : 2400 – 2500/5470-5875 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 15° Connector : N Jack Dim : 80*78*870 mm	
	4 / 8	SAA05-220920	Freq. : 2400 – 2500/5150-5900 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 35° / 20° Connector : N Jack Dim : 80*78*260 mm	

# Outdoor 2.4/5.8 GHz Omni Antenna




Photos	Gain (dBi)	Part Number	Spec.	Remark
	8 / 10	SAA08-220570	Freq. : 2400 - 2500 MHz 5100 - 5900 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 13° / 7°-10° Connector : N Jack Dim : 80*78*1175 mm	
	4.5 / 7	SAA04-220080	Freq. : 2400 - 2500 MHz 5150 - 5875 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 30° / 20° Connector : RP N Plug Dim : φ22*183 mm	
	5 / 7	SAA14-220150	Freq. : 2400 - 2500 MHz 5150 - 5875 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 29° / 13° Connector : N Plug Dim : φ22*308.5 mm	

# Outdoor 2.4/5 GHz Omni Antenna


Photos	Gain (dBi)	Part Number	Spec.	Remark
	3.5/7	SAA17-220140	Freq. : 2400 - 2500 MHz 5150 - 5875 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 50° / 25° Connector : N Jack Dim : φ22*172 mm	



# Outdoor LTE Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	2.4	SAA07-150720	Freq. : 825 – 960/1710 - 2170 MHz VSWR : 2.5:1 Max. 2.0:1 Max. Pol. : Linear, Vertical polarization H-plan : 360° E-plan : 100° / 60° Connector : RP N Plug Dim : φ22*183 mm	
	2	SAA13-330360	Freq. : 698 - 862 MHz VSWR : 2.5:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 60° Connector : N Plug Dim : φ22*308.5 mm	
	4.5	SAA13-140320	Freq. : 1710 - 2170 MHz 2200 - 2500 MHz 2500 - 2700 MHz VSWR : 2.5:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 16° / 15° / 25° Connector : N Plug Dim : φ22*308.5 mm	




# Outdoor LTE Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	<p>1 / 3.3 / 3.5</p>	<p>SAA15-330380</p>	<p>Freq. : 700 – 960/1700 – 2200/ 2500 - 2700 MHz VSWR : 3.0:1 Max. 2.5:1 Max. 2.5:1 Max. Pol. : Linear, Vertical H-plan : 360° Connector : N Plug Dim : φ22*183 mm</p>	




# SmartAnt

Ceiling Antenna


# Indoor Ceiling Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	3.7	SAA04-140010	<p>Freq.: 1700 - 2700 MHz            VSWR:2.0:1 Max.            Pol.: Linear, vertical            H-plan: 360°            E-plan: 75°            Connector: SMA Jack            Dim:φ133*42 mm</p>	Directional / Ceiling
	10	SAA09-050070	<p>Freq.: 2300 - 2700 MHz            VSWR:2.0:1 Max.            Pol.: Linear, vertical            H-plan: 51°            E-plan: 60°            Connector: SMA Jack x 2            Dim:φ133*42 mm</p>	Directional / Ceiling
	3/5	SAA09-220080	<p>Freq.: 2400 – 4900/4900 - 5900 MHz            VSWR:2.0:1 Max.            Pol.: Linear, vertical            H-plan: 360°            E-plan: 65°            Connector: SMA Jack            Dim:φ133*42 mm</p>	Directional / Ceiling

# Indoor Ceiling Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	2.5/8	SAA09-220140	<p>Freq.: 2400 – 2500/5150 - 5875 MHz            VSWR:2.0:1 Max.            Pol.: Linear, vertical            H-plan: 360°            E-plan: 60/55°            Connector: SMA Jack x 3            Dim:φ133*55.2 mm</p>	Directional / Ceiling
	3/6	SAA13-220090	<p>Freq.: 2400 – 2500/5150 - 5875 MHz            VSWR: 2.0:1 Max.            Pol.: Linear, vertical            H-plan: 360°            E-plan: 60/55°            Connector: SMA Jack x 4            Dim:φ133*55.2 mm</p>	Directional / Ceiling
	2.5/6.5	SAA13-220390	<p>Freq.: 2400 – 2500/5150 - 5875 MHz            VSWR:2.0:1 Max.            Pol.: Linear, vertical            H-plan: 360°            E-plan: 60/80°            Connector: SMA Jack x 6            Dim:φ133*55.2 mm</p>	Directional / Ceiling

# Indoor Ceiling Antenna



Photos	Gain (dBi)	Part Number	Spec.	Remark
	5/9	SAA15-220140	Freq.: 2400 – 2500/5150 - 5875 MHz VSWR: 2.0:1 Max. Pol.: Linear, vertical H-plan: 360° E-plan: 53/34° Connector: SMA Jack x 4 Dim: φ133*42 mm	Directional / Ceiling

# SmartAnt Sector Antenna

---

**2.4 GHz Sector Antenna**  
**5G Boardband Antenna**

# Outdoor 2.4 GHz Sector Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	14	SAA12-050080	Freq. : 2400 - 2500 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 60° E-plan : 13° Connector : N Jack * 2 Dim : 540*116*39 mm	
	14.5	SAA20-420320	Freq. : 5900 - 7125 MHz VSWR : 2.0:1 Max. Pol. : Linear, ±45° H-plan : 60° E-plan : 10° Connector : N Jackx2 Dim : 540*116*39 mm	



# SmartAnt Directional Antenna

---

**2.4 GHz Antenna**

**3.5 GHz Antenna**




**5.8 GHz Antenna**

**2.4/5 GHz Antenna**




**5G Boardband Antenna**

**Antenna Enclosure**

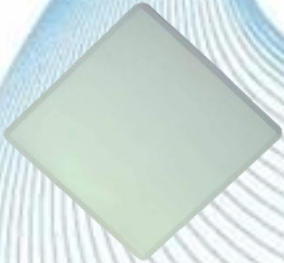


# Outdoor 2.4 GHz Directional Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	8.5	SAA04-050240	Freq. : 2400 - 2500 MHz VSWR : 1.5:1 Max. Pol. : Linear, Vertical H-plan : 65° E-plan : 60° Connector : N Jack Dim : 114*114*40 mm	
	14	SAA04-050250	Freq. : 2400 - 2500 MHz VSWR : 1.5:1 Max. Pol. : Linear, Vertical H-plan : 30° E-plan : 30° Connector : N Jack Dim : 218*200*50 mm	
	9.5	SAA04-050340	Freq. : 2400 - 2500 MHz VSWR : 1.5:1 Max. Pol. : Linear, Vertical H-plan : 50° E-plan : 50° Connector : N Jack Dim : 114*114*40 mm	

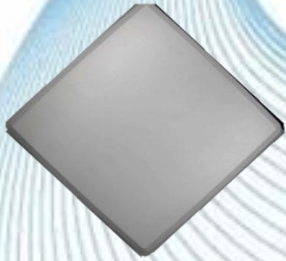
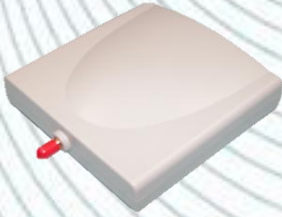

# Outdoor 2.4 GHz Directional Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	12	SAA04-050680	<p>Freq. : 2400-2700 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 83°            E-plan : 22°            Connector : SMA Jack            Dim : 330*93*21 mm</p>	
	16	SAA04-052250	<p>Freq. : 2400-2500 MHz            VSWR : 1.5:1 Max.            Pol. : Linear, Vertical            H-plan : 25°            E-plan : 25°            Connector : N Jack            Dim : 305*305*25 mm</p>	
	8.5	SAA06-050430	<p>Freq. : 2300-2700 MHz            VSWR : 1.5:1 Max.            Pol. : Linear, Vertical            H-plan : 61°~ 65°            E-plan : 61°~ 65°            Connector : N Jack            Dim : 114*114*40 mm</p>	




# Outdoor 2.4 GHz Directional Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	14	SAA11-160450	<p>Freq. : 2200-2400 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical / Horizontal            H-plan : 20°            E-plan : 20°            Connector : N Jack *2            Dim : 320*320*18 mm</p>	
	12	SAA04-120020	<p>Freq. : 3400 - 3700 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 77°            E-plan : 17°            Connector : SMA Jack            Dim : 330*93*21 mm</p>	
	18	SAA04-120060	<p>Freq. : 3400 - 3700 MHz            VSWR : 1.5:1 Max.            Pol. : Linear, Vertical            H-plan : 18°            E-plan : 18°            Connector : N Jack            Dim : 305*305*50 mm</p>	

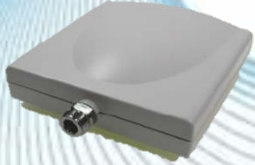
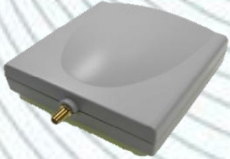

# Outdoor 3.5 GHz Directional Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	18	SAA09-120240	<p>Freq. : 3300 - 3800 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical / Horizontal            H-plan : 14°~16.5° / 15°~16.5°            E-plan : 14.5°~16° / 14°~17.5°            Connector : MMCX R/A Plug *2            Dim : 320*320*110 mm</p>	Enclosure
	8.0	SAA06-150290	<p>Freq. : 1710 - 1880 MHz            1850 - 1990 MHz            1920 - 2170 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 60°            E-plan : 60°            Connector : SMA Jack            Dim : 114*128*40 mm</p>	
	12	SAA20-130240	<p>Freq. : 3600-4200 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, ±45°            H-plan : 75°            E-plan : 20°            Connector : SMA Jack*2            Dim : 330*93*21.4 mm</p>	

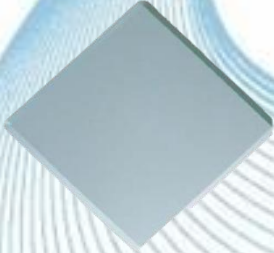
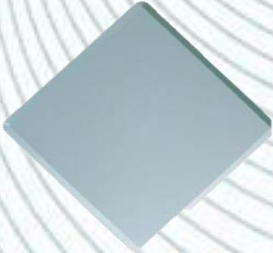

# Outdoor 3.5 GHz Directional Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	12	SAA20-170250	<p>Freq. : 4500-4600 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, <math>\pm 45^\circ</math>            H-plan : <math>75^\circ</math>            E-plan : <math>20^\circ</math>            Connector : SMA Jack*2            Dim : 330*93*21.4 mm</p>	
	23	SAA04-090090	<p>Freq. : 5725-5875 MHz            VSWR : 1.5:1 Max.            Pol. : Linear, Vertical / Horizontal            H-plan : <math>9^\circ</math>            E-plan : <math>9^\circ</math>            Connector : N Jack            Dim : 360*360*16 mm</p>	
	18	SAA04-090250	<p>Freq. : 4900-5875 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : <math>17.5^\circ \sim 23^\circ</math>            E-plan : <math>16^\circ \sim 19^\circ</math>            Connector : N Jack            Dim : 200*218*50 mm</p>	

# Outdoor 5.8 GHz Directional Antenna

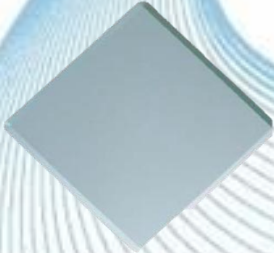


Photos	Gain (dBi)	Part Number	Spec.	Remark
	15	SAA04-093310	<p>Freq. : 4900-5000 MHz 5000-5500 MHz 5500-5875 MHz</p> <p>VSWR : 2.0:1 Max.</p> <p>Pol. : Linear, Vertical</p> <p>H-plan : 28° / 22°~ 25.5° / 22.5°</p> <p>E-plan : 33° / 28°~ 31° / 28.5°</p> <p>Connector : N Jack</p> <p>Dim : 132*114*40 mm</p>	
	15	SAA05-090290	<p>Freq. : 4900 - 5000 MHz 5000 - 5500 MHz 5500 - 5875 MHz</p> <p>VSWR : 2.0:1 Max.</p> <p>Pol. : Linear, Vertical</p> <p>H-plan : 28° / 22°~ 25.5° / 22.5°</p> <p>E-plan : 33° / 28°~ 31° / 28.5°</p> <p>Connector : SMA Jack</p> <p>Dim : 128*114*40 mm</p>	
	14.5	SAA04-200160	<p>Freq. : 4900 - 5875 MHz</p> <p>VSWR : 2.0:1 Max.</p> <p>Pol. : Linear, Vertical</p> <p>H-plan : 45°~55°</p> <p>E-plan : 10°~12°</p> <p>Connector : SMA Jack</p> <p>Dim : 330*93*21 mm</p>	

# Outdoor 5 GHz Directional Antenna




Photos	Gain (dBi)	Part Number	Spec.	Remark
	23	SAA04-20212A	<p>Freq. : 4900 - 5150 MHz 5150 - 5875 MHz</p> <p>VSWR : 3.0:1 Max. 2.0:1 Max.</p> <p>Pol. : Linear, Vertical</p> <p>H-plan : 9°~10°</p> <p>E-plan : 9°~14°</p> <p>Connector : N Jack</p> <p>Dim : 320*320*43 mm</p>	
	21	SAA05-200350	<p>Freq. : 4900 - 5100 MHz</p> <p>VSWR : 1.7:1 Max.</p> <p>Pol. : Linear, Vertical</p> <p>H-plan : 10°</p> <p>E-plan : 12°</p> <p>Connector : N Jack</p> <p>Dim : 320*320*43 mm</p>	
	10	SAA05-200390	<p>Freq. : 4900 - 5875 MHz</p> <p>VSWR : 2.0:1 Max.</p> <p>Pol. : Linear, Vertical</p> <p>H-plan : 45°</p> <p>E-plan : 45°</p> <p>Connector : N Jack</p> <p>Dim : 114*114*40 mm</p>	






# Outdoor 5 GHz Directional Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	23	SAA08-200420	Freq. : 5150 - 5250 MHz 5250 - 5875 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 9°~11.5° E-plan : 8°~12° Connector : N Jack Dim : 320*320*43 mm	
	13.5 / 15.5	SAA04-222060	Freq. : 2400 - 2500 MHz 4900 - 5875 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 30° / 15° E-plan : 30° / 15° Connector : N Jack Dim : 200*218*50 mm	
	8.5 / 10.5	SAA04-222070	Freq. : 2400 - 2500 MHz 4900 - 5875 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 58° / 45° E-plan : 55° / 45° Connector : SMA Jack Dim : 114*124*40 mm	




# Outdoor 5G Boardband Directional Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	19	SAA20-420300	Freq. : 5900 -7125 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical & Horizontal H-plan : 15° -20° E-plan : 15°-20° Connector : N Jack*2 Dim : 213*253*30 mm	
	12	SAA21-420320	Freq. : 5900 -7125 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical & Horizontal H-plan : 36° E-plan : 34° Connector : N Jack*2 Dim : 122*122*47 mm	
	13	SAA22-420070	Freq.:5900-7125 MHz VSWR:2.0:1 Max. Pol.: Linear, Vertical & Horizontal H-plan: 30-40° E-plan: 30-40° Connector: N Jack *4 Dim:213*253*30mm	<b>4*4 MIMO Directional</b>

# Outdoor Antenna Enclosure

Photos	Gain (dBi)	Part Number	Spec.	Remark
	13	SAA10-050310	<p>Freq. : 2500 - 2700 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, <math>\pm 45^\circ</math>            H-plan : <math>30^\circ \sim 33^\circ</math>            E-plan : <math>30^\circ \sim 33^\circ</math>            Connector : IPEX *2            Dim : 253*213*122 mm</p>	Enclosure
	14	SAA12-050310	<p>Freq. : 2400 - 2500 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, <math>\pm 45^\circ</math>            H-plan : <math>30^\circ / 40^\circ</math>            E-plan : <math>35^\circ / 45^\circ</math>            Connector : R/A MMCX Plug *2            Dim : 250*250*88 mm</p>	Enclosure
	16	SAA05-051000	<p>Freq. : 2400 - 2500 MHz            VSWR : 1.5:1 Max.            Pol. : Linear, Vertical            H-plan : <math>25^\circ</math>            E-plan : <math>25^\circ</math>            Connector : MMCX R/A Plug            Dim : 305*305*110 mm</p>	Enclosure

# Outdoor Antenna Enclosure

Photos	Gain (dBi)	Part Number	Spec.	Remark
	16	SAA10-120050	Freq. : 3300 - 3800 MHz VSWR : 2.0:1 Max. Pol. : Linear, $\pm 45^\circ$ H-plan : $15.4^\circ \sim 17.6^\circ$ E-plan : $15.8^\circ \sim 19.8^\circ$ Connector : IPEX Dim : 305*305*110 mm	Enclosure
	23	SAA05-200820	Freq. : 5150 - 5875 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : $9^\circ$ E-plan : $9^\circ$ Connector : IPEX Dim : 320*320*110 mm	Enclosure
	16	SAA12-200320	Freq. : 5150 - 5875 MHz VSWR : 2.0:1 Max. Pol. : Linear, $\pm 45^\circ$ H-plan : $15^\circ / 20^\circ$ E-plan : $15^\circ / 20^\circ$ Connector : R/A MMCX Plug*2 Dim : 250*250*88 mm	Enclosure

# SmartAnt MIMO Antenna

---

**Indoor MIMO Antenna**




**Outdoor MIMO Antenna**

**Outdoor Dual Band MIMO Antenna**




**Outdoor 5G Boardband MIMO Antenna**

**MIMO Antenna Enclosure**




# Indoor MIMO Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	12	SAA04-050680	<p>Freq.: 2400 - 2700 MHz            VSWR: 2.0:1 Max.            Pol.: Linear, Vertical            H-plan: 63°            E-plan: 22°            Connector: SMA Jack x 2            Dim: 330*93*21.4 mm</p>	Directional / Window
	11.5	SAA08-120690	<p>Freq.: 3300 - 3800 MHz            VSWR:2.0:1 Max.            Pol.:Linear, ±45°            H-plan: 66°            E-plan: 19°            Connector: SMA Jack x 2            Dim:330*93*21.4 mm</p>	Directional / Window
	10	SAA09-050070	<p>Freq.: 2300 - 2700 MHz            VSWR:2.0:1 Max.            H-plan: 51°            E-plan: 60°            Connector: SMA Jack x 2            Dim:φ133*42 mm</p>	Directional / Ceiling

# Indoor MIMO Antenna

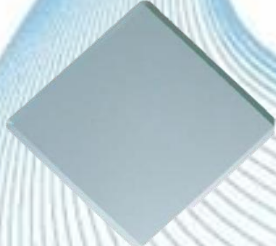


Photos	Gain (dBi)	Part Number	Spec.	Remark
	2.5/8	SAA09-220140	<p>Freq.: 2400 – 2500/5150 - 5875 MHz            VSWR: 2.0:1 Max.            H-plan: 360°            E-plan: 60/55°            Connector: SMA Jack x 3            Dim: φ133*55.2 mm</p>	Directional / Ceiling
	3/6	SAA13-220090	<p>Freq.: 2400 – 2500/5150 - 5875 MHz            VSWR: 2.0:1 Max.            H-plan: 360°            E-plan: 60/55°            Connector: SMA Jack x 4            Dim: φ133*55.2 mm</p>	Directional / Ceiling
	2.5/6.5	SAA13-220390	<p>Freq.: 2400 – 2500/5150 - 5875 MHz            VSWR: 2.0:1 Max.            H-plan: 360°            E-plan: 60/80°            Connector: SMA Jack x 6            Dim: φ133*55.2 mm</p>	Directional / Ceiling

# Indoor MIMO Antenna



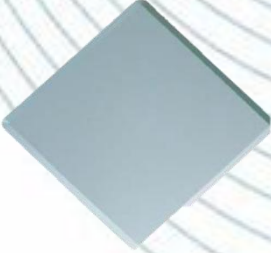
Photos	Gain (dBi)	Part Number	Spec.	Remark
	13	SAA20-200050	<p>Freq.: 5150-5875 MHz            VSWR: 2.0:1 Max.            Pol.: Linear, Vertical/Horiantal            H-plan: 80°            E-plan: 15°            Connector: RP SMA Jack x 2            Dim: 330*93*21.4 mm</p>	
	12	SAA21-120340	<p>Freq.: 3300-3800 MHz            VSWR: 2.0:1 Max.            Pol.: Linear, ±45°            H-plan: 60°            E-plan: 17°            Connector: SMA Jack x 2            Dim: 330*93*21.4 mm</p>	new
	12	SAA21-170350	<p>Freq.:4400-5000 MHz            VSWR: 2.0:1 Max.            Pol.: Linear, ±45°            H-plan: 60°            E-plan: 17°            Connector: SMA Jack x 2            Dim: 330*93*21.4 mm</p>	new






# Outdoor MIMO Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	17	SAA08-050450	<p>Freq.: 2300 - 2700 MHz            VSWR: 2.0:1 Max.            Pol.: Linear, Vertical &amp; Horizontal            H-plan: 25°            E-plan: 25°            Connector: N Jack x2            Dim:320*320*18 mm</p>	Directional
	14	SAA08-050490	<p>Freq.: 2400 - 2500 MHz            VSWR:2.0:1 Max.            Pol.: Linear, ±45° &amp; Linear Horizontal            H-plan: 45°            E-plan: 35°            Connector: N Jack x3            Dim:320*320*42 mm</p>	Directional
	18	SAA15-050240	<p>Freq.: 2200 - 2700 MHz            VSWR:2.0:1 Max.            Pol.: Linear, ±90°            H-plan: 17°            E-plan: 17°            Connector: N Jack x2            Dim:371*371*165 mm</p>	Directional




# Outdoor MIMO Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	13.5	SAA10-050100	<p>Freq.: 2400 - 2500 MHz            VSWR:2.0:1 Max.            Pol.: Cross Polarization <math>\pm 45^\circ</math>            H-plan: <math>33^\circ</math>            E-plan: <math>35^\circ</math>            Connector: N Jack x2            Dim:210*210*73mm</p>	Directional
	14	SAA12-050080	<p>Freq.: 2400 - 2500 MHz            VSWR:2.0:1 Max.            Pol.: Dual Linear, <math>\pm 45^\circ</math>            H-plan: <math>60^\circ</math>            E-plan: <math>13^\circ</math>            Connector: N Jack x2            Dim:540*116*39 mm</p>	Sector
	18	SAA08-120250	<p>Freq.: 3300 - 3800 MHz            VSWR:2.0:1 Max.            Pol.: Linear, Horizontal &amp; Vertical            H-plan: <math>17.5^\circ</math>            E-plan: <math>19^\circ</math>            Connector: N Jack x2            Dim:320*320*42 mm</p>	Directional




# Outdoor MIMO Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	20	SAA08-200140	<p>Freq.: 5150 - 5875 MHz            VSWR:2.0:1 Max.            Pol.: Dual Linear, <math>\pm 45^\circ</math>            H-plan: <math>10^\circ</math>            E-plan: <math>10^\circ</math>            Connector: N Jack x2            Dim:320*320*43 mm</p>	Directional
	22	SAA12-200030	<p>Freq.:4900 - 5875 MHz            VSWR:2.0:1 Max.            Pol.: Linear, Horizontal &amp; Vertical            H-plan: <math>8^\circ</math>            E-plan: <math>8^\circ</math>            Connector: N Jack x2            Dim:371*371*165 mm</p>	Directional
	20	SAA14-200460	<p>Freq.: 5150 - 5875 MHz            VSWR:2.0:1 Max.            Pol.: Linear, Horizontal &amp; Vertical            &amp; <math>\pm 45^\circ</math>            H-plan: <math>17^\circ</math>            E-plan: <math>8^\circ</math>            Connector: N Jack x3            Dim:371*371*165 mm</p>	Directional




# Outdoor MIMO Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	12	SAA11-200090	Freq.:5150 - 5875 MHz VSWR:2.0:1 Max. Pol.: Linear, $\pm 90^\circ$ H-plan: $36^\circ$ E-plan: $3.4^\circ$ Connector: N Jack x2 Dim:122*122*147 mm	Directional
	16	SAA10-200110	Freq.:5150 - 5875 MHz VSWR:2.0:1 Max. Pol.: Linear, $\pm 90^\circ$ E-Plan: $19^\circ$ E-plan: $21^\circ$ Connector: N Jack x2 Dim:210*210*73 mm	Directional
	15	SAA12-200090	Freq.: 5150 - 5875 MHz VSWR:2.0:1 Max. Pol.: Linear, $\pm 45^\circ$ H-plan: $60^\circ$ E-plan: $6^\circ$ Connector: N Jack x2 Dim:540*116*395 mm	Sector


# Outdoor MIMO Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	15	SAA20-200120	Freq.:5150 - 5875 MHz VSWR:2.0:1 Max. Pol.: Linear, Horizontal & Vertical H-plan: 15-25° E-plan: 15-25° Connector: N Jack x4 Dim:371*371*165 mm	4*4 MIMO Directional
 <p>In development</p>	18	SAA21-200250	Freq.: 5150 - 5875 MHz VSWR:2.0:1 Max. Pol.: Linear, vertical & Horizontal H-plan: 90° E-plan: TBD° Connector: N Jack x2 Dim:806*122*57 mm	Sector
 <p>In development</p>	18	SAA21-200230	Freq.:5150 - 5875 MHz VSWR:2.0:1 Max. Pol.: Linear, ±45° H-plan: TBD E-plan: TBD Connector: N Jack x2 Dim:220*220*26 mm	2*2 MIMO




# Outdoor MIMO Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	18/19/17	SAA21-200290	<p>Freq.:4900-5150/5150-5875/5900-6100 MHz            VSWR:2.0:1 Max.            Pol.: Linear, Horizontal &amp; Vertical            H-plan: 15-25°            E-plan:15-25°            Connector: N Jack x2            Dim:320*320*18 mm</p>	Directional
	13	SAA21-200020	<p>Freq.: 5150 -6100 MHz            VSWR:2.0:1Max.            Pol.: Linear, Vertical &amp; Horizontal            H-plan: 36°            E-plan: 34°            Connector: N Jack x4            Dim:250*250 mm</p>	4*4 MIMO Directional
	4-6	SAA13-330370	<p>Freq.: 698 - 960 MHz            VSWR:2.5:1 Max.            Pol.: Linear, Horizontal &amp; Vertical H-plan:            75°            E-plan: 75°            Connector: N Jack x2            Dim:371*371*165 mm</p>	Directional

# Outdoor Dual Band MIMO Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	5/5.5	SAA14-220340	Freq.: 2400-2500/5150-5875MHz VSWR:2.0:1Max. Pol.: Linear, ±45° H-plan: 120° /120° E-plan: 80° / 30° Connector: N Jack x4 Dim:250*250 *32mm	4*4 MIMO Directional



# Outdoor 5G Boardband MIMO Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	19	SAA20-420300	<p>Freq. : 5900 -7125 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical &amp; Horizontal            H-plan : 15° -20°            E-plan : 15°-20°            Connector : N Jack*2            Dim : 213*253*30 mm</p>	
	12	SAA21-420320	<p>Freq. : 5900 -7125 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical &amp; Horizontal            H-plan : 36°            E-plan : 34°            Connector : N Jack*2            Dim : 122*122*47 mm</p>	
	14.5	SAA20-420320	<p>Freq. : 5900 - 7125 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, <math>\pm 45^\circ</math>            H-plan : 60°            E-plan : 10°            Connector : N Jack x2            Dim : 540*116*39 mm</p>	






# Outdoor 5G Boardband MIMO Antenna






Photos	Gain (dBi)	Part Number	Spec.	Remark
	19	SAA20-420300	Freq. : 5900 - 7125 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical & Horizontal H-plan : 15-420° E-plan : 15-420° Connector : N Jack x2 Dim : 213*253*30 mm	
	13	SAA22-420070	Freq. : 5900 - 7125 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical & Horizontal H-plan : 30-40° E-plan : 30-40° Connector : N Jack x4 Dim : 213*253*30 mm	4x4 MIMO

# MIMO Directional Antenna / Enclosure

Photos	Gain (dBi)	Part Number	Spec.	Remark
	14	SAA12-050310	Freq.:2400 - 2500 MHz VSWR:2.0:1 Max. Pol.: Linear, $\pm 45^\circ$ H-plan:30° E-plan:35° Connector: R/A MMCX Plug x2 Dim:250*250*88 mm	Directional
	16	SAA10-120050	Freq.: 3300 - 3800 MHz VSWR:2.0:1 Max. Pol.: Dual Linear, $\pm 45^\circ$ H-plan: 18° E-plan: 20° Connector: IPEX x2 Dim:305*305*110 mm	Directional
	18	SAA09-120240	Freq.:3300 - 3800 MHz VSWR:2.0:1 Max. Pol.: Linear, Vertical & Horizontal H-plan: 16.5° E-plan: 17.5° Connector: R/A MMCX Plug x2 Dim:320*320*110 mm	Directional






# MIMO Directional Antenna / Enclosure

Photos	Gain (dBi)	Part Number	Spec.	Remark
	16	SAA12-200320	<p>Freq.:5150 - 5875 MHz            VSWR:2.0:1 Max.            Pol.: Linear, <math>\pm 45^\circ</math>            H-plan:20°            E-plan:20°            Connector: R/A MMCX Plug x2            Dim:250*250*88 mm</p>	Directional
	15	SAA20-200120	<p>Freq.:5150 - 5875 MHz            VSWR:2.5:1 Max.            Pol.: Linear, vertical &amp; Horizontal            H-plan:20°            E-plan:20°            Connector: R/A MMCX Plug x4            Dim:371*371*165 mm</p>	4*4 MIMO
	18	SAA20-200010	<p>Freq.:5150 - 5875 MHz            VSWR:2.5:1 Max.            Pol.: Linear, vertical &amp; Horizontal            H-plan:20°            E-plan:20°            Connector: R/A MMCX Plug x4            Dim:220*220*60 mm</p>	



# SmartAnt

**Wi-Fi 6E/Wi-Fi 7 Antenna**

# Wi-Fi 6E/Wi-Fi 7 Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	3/6	SAA19-220070	<p>Freq.:2400 – 2400/5150 - 7125 MHz            VSWR:2.0:1 Max.            Pol.: Linear, Vertical            H-plan: 360°            E-plan: 50/25°            Connector: RP SMA Plug            Dim:19x39x127 mm</p>	Indoor Omni
	2	SAA22-440330	<p>Freq.:2400 – 2400/4900 - 7125 MHz            VSWR:2.0:1 Max.            Pol.: Linear, Vertical            H-plan: 360°            E-plan:0°            Connector: RP SMA Plug            Dim:79x35.3x10 mm</p>	Indoor Omni
	3/6/8	SAA19-220130	<p>Freq.:2400- 2500/5150 -5900/5901 -7125 MHz            VSWR:2.0:1 Max.            Pol.: Linear, Vertical            H-plan: 360°            E-plan: 30/20°            Connector: N plug            Dim:φ22x183mm</p>	Outdoor omni

# Wi-Fi 6E/Wi-Fi 7 Antenna

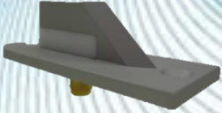
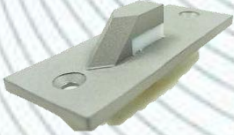
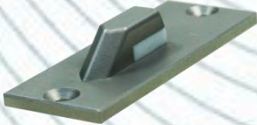
Photos	Gain (dBi)	Part Number	Spec.	Remark
	19	SAA20-420300	<p>Freq. : 5900 - 7125 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical &amp; Horizontal            H-plan : 15-420°            E-plan : 15-420°            Connector : N Jack x2            Dim : 213*253*30 mm</p>	2x2MIMO
	13	SAA22-450310	<p>Freq. : 5150 - 7125 MHz            VSWR : 2.0:1 Max.            Pol. : Linear,±45°            H-plan : 30-40°            E-plan : 30-40°            Connector : N Jack x4            Dim : 213*253*30 mm</p>	4x4 MIMO

# SmartAnt



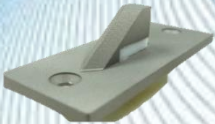


**Blade Antenna**

# Blade Antenna

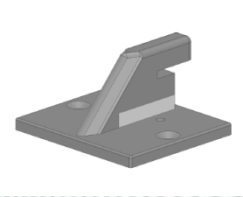


Photos	Gain (dBi)	Part Number	Spec.	Remark
	4	SAA15-050080	Freq: 2300-2500 MHz VSWR:2.0:1 Max. H-plan: N/A E-plan: N/A Connector: SMA Jack Dim:60*22.2*26 mm	S-Band slotted
	6	SAA14-200130	Freq:5000-5800 MHz VSWR:2.0:1 Max. H-plan: N/A E-plan: N/A Connector: SMA Jack Dim:57.8*22.2*20.1mm	C-Band slotted
	5.5	SAA19-200180	Freq:4400-5000 MHz VSWR:1.6:1 Max. H-plan: N/A E-plan: N/A Connector: SMA Jack Dim:57.8*22.2*20.1mm	C-Band slotted



# Blade Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	7	SAA14--210140	Freq: 9000 - 9500 MHz VSWR:1.5:1 Max. H-plan: N/A E-plan: N/A Connector: SMA Jack Dim:57.8*22.2*23 mm	X-Band slotted
	3/6.5	SAA20-220020	Freq:2400 - 2500 5100-5875 MHz VSWR:2.0:1 Max. H-plan: N/A E-plan: N/A Connector: SMA Jack Dim:57.8*22.2*29mm	Dual Band (S-Band & C-Band )slotted
 <div style="border: 1px dashed red; padding: 2px; display: inline-block;">In development</div>	15	SAA20-390070	Freq::1030 - 1090 MHz VSWR:2.0:1 Max. H-plan: N/A E-plan: N/A Connector: SMA Jack Dim: TBD	L-Band slotted

# Blade Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	3/6.5	SAA21-220090	Freq: 2400-2500/5150-5875MHz VSWR:2.0:1 Max. H-plan: N/A E-plan: N/A Connector: SMA Jack Dim: TBD	Band Slotted Blade Antenna
 <p>In development</p>	4/4/7	SAA21-430080	Freq: 1710-2700/3300-4200/ 4300-5000 MHz VSWR:3.0:1 Max. H-plan: N/A E-plan: N/A Connector: SMA Jack Dim:TBD	
	3	SAA22-190410	Freq: 425,±2.5 MHz VSWR:2.0:1 Max. H-plan: N/A E-plan: N/A Connector: SMA Jack Dim:165*30*10mm	

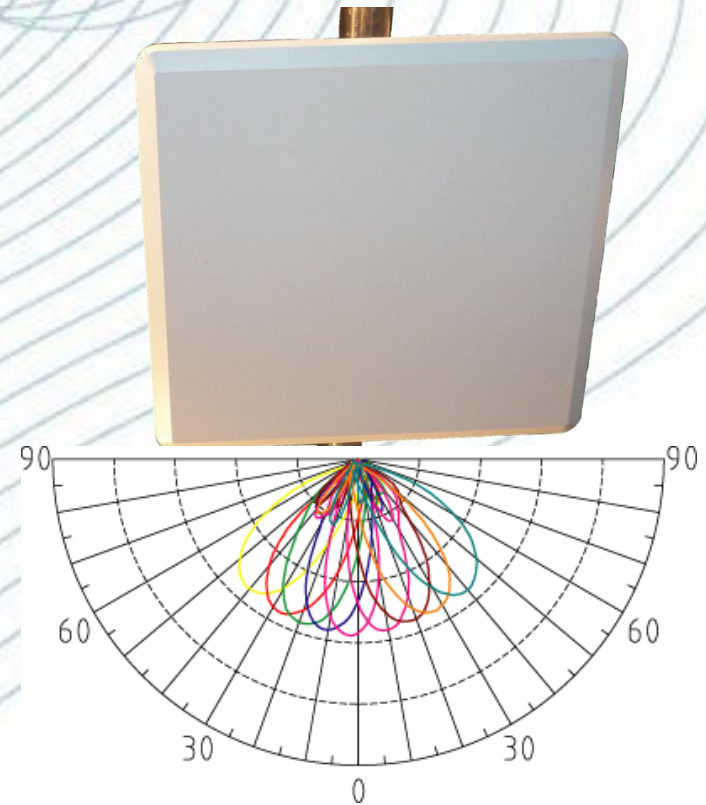
# SmartAnt

---

**Beam Steering Smart Antenna**

# Beam Steering Smart Antenna

Item	Specification
Frequency	5150-5875MHz
Gain	Tx: 20dBi Rx:16dBi
Beam Steering Angle	$\pm 45^\circ$
RF Input	R/A MMCX
Input Impedance	50 $\Omega$
Input power	24V/1A
Power input connector	4-pin(XH-2.5mm)
Communication Interface	I <sup>2</sup> C
I <sup>2</sup> C Signal Level	5V
Temperature Range	-20°C~80°C






# SmartAnt

---

**Vehicle Antenna**

# Vehicle Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	4/14	SAA08-050520	<p>Freq: 2400 - 2500 MHz            VSWR:1.5:1 Max.            H-plan: 360°            E-plan: 30°            Connector: SMA Jack            Dim:200*118*90 mm</p>	
	7	SAA05-200750	<p>Freq:5725 - 5875 MHz            VSWR:2.0:1 Max.            H-plan: 60°            E-plan: 21°            Connector: SMA Jack            Dim:200*118*90mm</p>	
	8/9/8	SAA11-110170	<p>Freq::1710 - 2170/2300-            2700/4900-6100 MHz            VSWR:2.0:1 Max.            H-plan: 360°/Bi-Directional            E-plan: 15°            Connector: SMA Jack*2            Dim: 100*260*112.4mm</p>	

# **Sub-6GHz 3G/4G/5G/5G NR**

---

**1710-2170 MHz**

**2200-2700 MHz**

**1710-2170 / 2200-2700 MHz**

**3300-3800/3600-5000 MHz**

**698-960 MHz**

**700-960 / 1710-2170 / 2500-2700 MHz**

**824-960 / 1710-2170 MHz**

**824-960 / 2400-2500 MHz**

**617-960 /1425-2690/3300-5000/5150-5925 MHz**

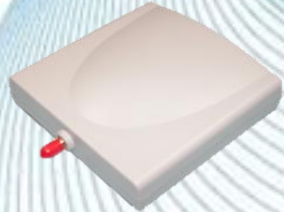
**617-960 /1425-2690/3300-5000/5150-7125 MHz**

# **Sub-6GHz 3G/4G/5G/5G NR**

**1710-2170 MHz**






# 1710-2170 MHz

Photos	Gain (dBi)	Part Number	Spec.	Remark
	7 / 7.5 / 8	SAA06-150290	Freq. : 1710-1880 MHz 1850-1990 MHz 1920-2170 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical H-plan : 60° E-plan : 60° Connector : SMA Plug Dim : 114*128*40 mm	




# **Sub-6GHz 3G/4G/5G/5G NR**

**2200-2700 MHz**



# 2200-2700 MHz

Photos	Gain (dBi)	Part Number	Spec.	Remark
	8.5	SAA06-050430	<p>Freq. : 2300-2700 MHz            VSWR : 1.5:1 Max.            Pol. : Linear, Vertical            H-plan : 61°~65°            E-plan : 61°~65°            Connector : N Jack            Dim : 114*114*40 mm</p>	
	4	SAA07-050180	<p>Freq. : 2500-2700 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 46°            Connector : RP SAM Plug            Dim : 19*39*127 mm</p>	
	8	SAA07-050850	<p>Freq. : 2300-2700 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 15°            Connector : N Jack            Dim : 582*78*80 mm</p>	

# 2200-2700 MHz

Photos	Gain (dBi)	Part Number	Spec.	Remark
	10	SAA07-050860	<p>Freq. : 2300-2700 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 10°            Connector : N Jack            Dim : 1175*78*80 mm</p>	
	16~17	SAA08-050450	<p>Freq. : 2300-2700 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical / Horizontal            H-plan : 18°~25°            E-plan : 18°~25°            Connector : N Jack *2            Dim : 320*320*18 mm</p>	
	13~14 / 15	SAA10-050060	<p>Freq. : 2300-2400 MHz            2400-2700 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, ±45°            H-plan : 21°~25.4°            E-plan : 18.7°~23.2°            Connector : IPEX            Dim : 305*305*110 mm</p>	


# 2200-2700 MHz

Photos	Gain (dBi)	Part Number	Spec.	Remark
	12.5 / 13	SAA10-050310	Freq. : 2500-2700 MHz VSWR : 2.0:1 Max. Pol. : Linear, $\pm 45^\circ$ H-plan : $30^\circ \sim 33^\circ$ E-plan : $30^\circ \sim 33^\circ$ Connector : IPEX *2 Dim : 253*213*122 mm	Enclosure
	18	SAA15-050240	Freq. : 2200-2700 MHz VSWR : 2.0:1 Max. Pol. : Linear, $\pm 90^\circ$ H-plan : $17^\circ$ E-plan : $17^\circ$ Connector : N Jack *2 Dim : 371*371*165 mm	

# **Sub-6GHz 3G/4G/5G/5G NR**

**1710-2170 / 2200-2700 MHz**

# 1710-2170 / 2200-2700MHz

Photos	Gain (dBi)	Part Number	Spec.	Remark
	4.5 / 3 / 4.5	SAA13-140320	Freq. : 1710-2170 MHz 2200-2500 MHz 2500-2700 MHz VSWR : 2.5:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 16° / 15° / 25° Connector : N Plug Dim : φ22*308.5 mm	




# **Sub-6GHz 3G/4G/5G/5G NR**

---



**3300-3800/3600-5000 MHz**





# 3300-3800MHz

Photos	Gain (dBi)	Part Number	Spec.	Remark
	5	SAA07-120120	<p>Freq. : 3400-3600 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 40°            Connector : RP SMA Plug            Dim : 19*39*127 mm</p>	
	18	SAA08-120250	<p>Freq. : 3300-3800 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Horizontal / Vertical            H-plan : 16.5°~17.5° / 14.5°~17.5°            E-plan : 16°~19° / 15.5°~17.5°            Connector : N Jack *2            Dim : 320*320*42 mm</p>	
	11.5	SAA08-120690	<p>Freq. : 3300-3800 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, ±45°            H-plan : 66°~75°            E-plan : 19°~23°            Connector : SMA Jack *2            Dim : 330*93*21.4 mm</p>	

# 3300-3800MHz

Photos	Gain (dBi)	Part Number	Spec.	Remark
	17-18	SAA09-120240	Freq. : 3300-3800 MHz VSWR : 2.0:1 Max. Pol. : Linear, Vertical / Horizontal H-plan : 14°~16.5° / 15°~16.5° E-plan : 14.5°~16° / 14°~17.5° Connector : MMCX R/A Plug *2 Dim : 320*320*110 mm	
	16	SAA10-120050	Freq. : 3300-3800 MHz VSWR : 2.0:1 Max. Pol. : Linear, ±45° H-plan : 15.4°~17.6° E-plan : 15.8°~19.8° Connector : IPEX Dim : 305*305*110 mm	




# 3600-5000MHz

Photos	Gain (dBi)	Part Number	Spec.	Remark
	10-12	SAA20-130240	Freq. : 3600-4200 MHz VSWR : 2.0:1 Max. Pol. : Linear, $\pm 45^\circ$ H-plan : $75^\circ$ E-plan : $20^\circ$ Connector : SMA Plug Dim : 330*93*21.4 mm	
	10-12	SAA20-170250	Freq. : 4500-5000 MHz VSWR : 2.0:1 Max. Pol. : Linear, $\pm 45^\circ$ H-plan : $75^\circ$ E-plan : $20^\circ$ Connector : SMA Plug Dim : 330*93*21.4 mm	

# Sub-6GHz 3G/4G/5G/5G NR

698-960 MHz



# 698-960 MHz

Photos	Gain (dBi)	Part Number	Spec.	Remark
	2	SAA13-330360	<p>Freq. : 698-862 MHz            VSWR : 2.5:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 60°            Connector : N Plug            Dim : <math>\phi 22 \times 308.5</math> mm</p>	
	4~6	SAA13-330370	<p>Freq. : 698-960 MHz            VSWR : 2.5:1 Max.            Pol. : Linear, Horizontal / Vertical            H-plan : 50°~75° / 60°~75°            E-plan : 60°~75° / 50°~75°            Connector : N Jack *2            Dim : 371*371*165 mm</p>	
	10~12	SAA20-020290	<p>Freq. : 902-965 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Horizontal / Vertical            H-plan : 40°~50°            E-plan : 40°~50°            Connector : N Jack *2            Dim : 371*371*165 mm</p>	

# **Sub-6GHz 3G/4G/5G/5G NR**

**700-850 / 1710-2170 / 2500-2700 MHz**

# 700-850 / 1710-2170 / 2500-2700 MHz



Photos	Gain (dBi)	Part Number	Spec.	Remark
	<p>0~2 / 0~6 / 0.5~3</p>	<p>SA A14-330530</p>	<p>Freq. : 700-850/1710-2170/2500-2700 MHz            VSWR : 3.5:1 Max. / 3.0:1 Max. / 3.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 45°~55° / 15°~85° / 25°~50°            Connector : RP SMA Plug            Dim : 19*39*127 mm</p>	
	<p>1 / 3.3 / 3.5</p>	<p>SA A15-330380</p>	<p>Freq. : 700-960/1700-2200/2500-2700 MHz            VSWR : 3.0:1 Max./ 2.5:1 Max. / 2.5:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            Connector : N Plug            Dim : φ22*183 mm</p>	

# **Sub-6GHz 3G/4G/5G/5G NR**

**824-960 / 1710-2170 MHz**




# 824-960 / 1710-2170 MHz

Photos	Gain (dBi)	Part Number	Spec.	Remark
	2.5 / 2.4	SAA07-150720	Freq. : 825-960/1710-2170 MHz VSWR : 2.5:1 Max. 2.0:1 Max. Pol. : Linear, Vertical polarization H-plan : 360° E-plan : 100° / 60° Connector : RP N Plug Dim : φ22*183 mm	
	0~3 / 0~2	SAA10-150290	Freq. : 824-960 / 1710-2170 MHz VSWR : 3.5:1 Max. 3.0:1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 80° / 90° Connector : SMA Plug Dim : 19*39*127 mm	

# **Sub-6GHz 3G/4G/5G/5G NR**

**824-960 / 2400-2500 MHz**



# 824-960 / 2400-2500 MHz

Photos	Gain (dBi)	Part Number	Spec.	Remark
	0~3 / 0~2	SAA18-150110	Freq. : 824-960 / 2400-2500 MHz VSWR : 3.5:1 Max. 2.5:1 Max. Pol. : Linear, Vertical H-plan : 360° Connector : SMA Plug Dim : 19*39*127 mm	

# **Sub-6GHz 3G/4G/5G/5G NR**

**617-960 /1425-2690/3300-5000 /5150-5925 MHz**


# 617-960 / 1425-2690 / 3300-5000 / 5150-5925 MHz

Photos	Gain (dBi)	Part Number	Spec.	Remark
	2/3/3/4	SAA21-430110	Freq. : 617-960/1425-2690/3300-5000/ 5150-5925MHz VSWR : 3.0 :1 Max. Pol. : Linear, Vertical H-plan : 360° Connector : SMA Plug or PR SMA Plug Dim : 219*23*14 mm	
	2/3/3/3	SAA21-430240	Freq. : 617-960/1425-2690/3300-5000/ 5150-7125MHz VSWR : 3.0 :1 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : 80° / 90° Connector : SMA Plug Dim : 19*39*127 mm	

# **Sub-6GHz 3G/4G/5G/5G NR**

**617-960 /1425-2690/3300-5000 /5150-7125 MHz**

# LTE4G 5G Sub 6GHz 5G GNR Antenna

Photos	Gain (dBi)	Part Number	Spec.	Remark
	2/3/4/4	SAA21-430300	Freq. : 617-960/1425-2690/3300-5150/ 5150-7125 MHz VSWR : 3.0 Max. Pol. : Linear, Vertical H-plan : 360° E-plan : TBD Connector : N Plug Dim : φ22*183 mm	




# Wi-Fi 802.11ah(Wi-Fi Halow) Antenna

---




**860-930 MHz**



# Wi-Fi 802.11ah(Wi-Fi Halow)

Photos	Gain (dBi)	Part Number	Spec.	Remark
	0~3 / 0~2	SAA18-150110	<p>Freq. : 824-960/2400-2500 MHz            VSWR : 3.5:1 Max./ 2.5:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            Connector : SMA Plug            Dim : 19*39*127 mm</p>	
	0~3 / 0~2	SAA10-150290	<p>Freq. : 824-960/1710-2170 MHz            VSWR : 3.5:1 Max./ 3.0:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            E-plan : 80° / 90°            Connector : SMA Plug            Dim : 19*39*127 mm</p>	
	1 / 3.3 / 3.5	SAA15-330380	<p>Freq. : 700-960/1700-2200/2500-2700 MHz            VSWR : 3.0:1 Max./ 2.5:1 Max.            2.5:1 Max.            Pol. : Linear, Vertical            H-plan : 360°            Connector : N Plug            Dim : φ22*183 mm</p>	

# Wi-Fi 802.11ah(Wi-Fi Halow)


Photos	Gain (dBi)	Part Number	Spec.	Remark
	2.5 / 2.4	SAA07-150720	<p>Freq. : 825-960/1710-2170 MHz            VSWR : 2.5:1 Max./ 2.0:1 Max.            Pol. : Linear, Vertical polarization            H-plan : 360°            E-plan : 100° / 60°            Connector : RP N Plug            Dim : φ22*183 mm</p>	
	4~6	SAA13-330370	<p>Freq. : 698-960 MHz            VSWR : 2.5:1 Max.            Pol. : Linear, Horizontal / Vertical            H-plan : 50°~75° / 60°~75°            E-plan : 60°~75° / 50°~75°            Connector : N Jack *2            Dim : 371*371*165 mm</p>	
	10~12	SAA20-020290	<p>Freq. : 902-965 MHz            VSWR : 2.0:1 Max.            Pol. : Linear, Horizontal / Vertical            H-plan : 40°~50°            E-plan : 40°~50°            Connector : N Jack *2            Dim : 371*371*165 mm</p>	

# Other antenna




---

**Microwave Sensor  
Surge Arrestor  
Enclosure Design Concept**


# Microwave Sensor

Photos	Gain (dBi)	Part Number	Spec.	Remark
	10.525	SAA10-210240	Freq. : 10.525 GHz Freq. Stab@-30° to +60°C : $\pm 5$ MHz Output Power (E.I.R.P) : 14dBm(max) Antenna Beam-width :H-plan : 90°(typ) E-plan : 30° (typ)	

# Surge Arrestor

Photos	Gain (dBi)	Part Number	Spec.	Remark
	N/A	SAA-S03-N1N0	<p>Freq. : DC-3.0 MHz            VSWR : 1.5:1 Max.            Insertion loss : 0.6dB Max.            DC breakdown Voltage : 90V ±20%            Connector : N Plug to N Jack</p>	
	N/A	SAA-S06-N0N0	<p>Freq. : DC-6.0 MHz            VSWR : 1.3:1 <u>Max. @DC~4.0GHz</u>                      1.5:1 <u>Max. @4.0~6.0GHz</u>            Insertion loss : 0.8dB Max.            DC breakdown Voltage : 90V ±20%            Connector : N Jack to N Jack</p>	
	N/A	SAA-S06-N1N0	<p>Freq. : DC-6.0 MHz            VSWR : 1.3:1 <u>Max. @DC~4.0GHz</u>                      1.5:1 <u>Max. @4.0~6.0GHz</u>            Insertion loss : 0.8dB Max.            DC breakdown Voltage : 90V ±20%            Connector : N Plug to N Jack</p>	

# Surge Arrestor

Photos	Gain (dBi)	Part Number	Spec.	Remark
	N/A	SAA-S06-N5N4	Freq. : DC-6.0 MHz VSWR : 1.3:1 <u>Max. @DC~4.0GHz</u> 1.5:1 <u>Max. @4.0~6.0GHz</u> Insertion loss : 0.8dB Max. DC breakdown Voltage : 90V ±20% Connector : RP N Plug to RP N Jack	

# ENCLOSURE DESIGN CONCEPT



Type I:210\*250mm



Type II:250\*250mm



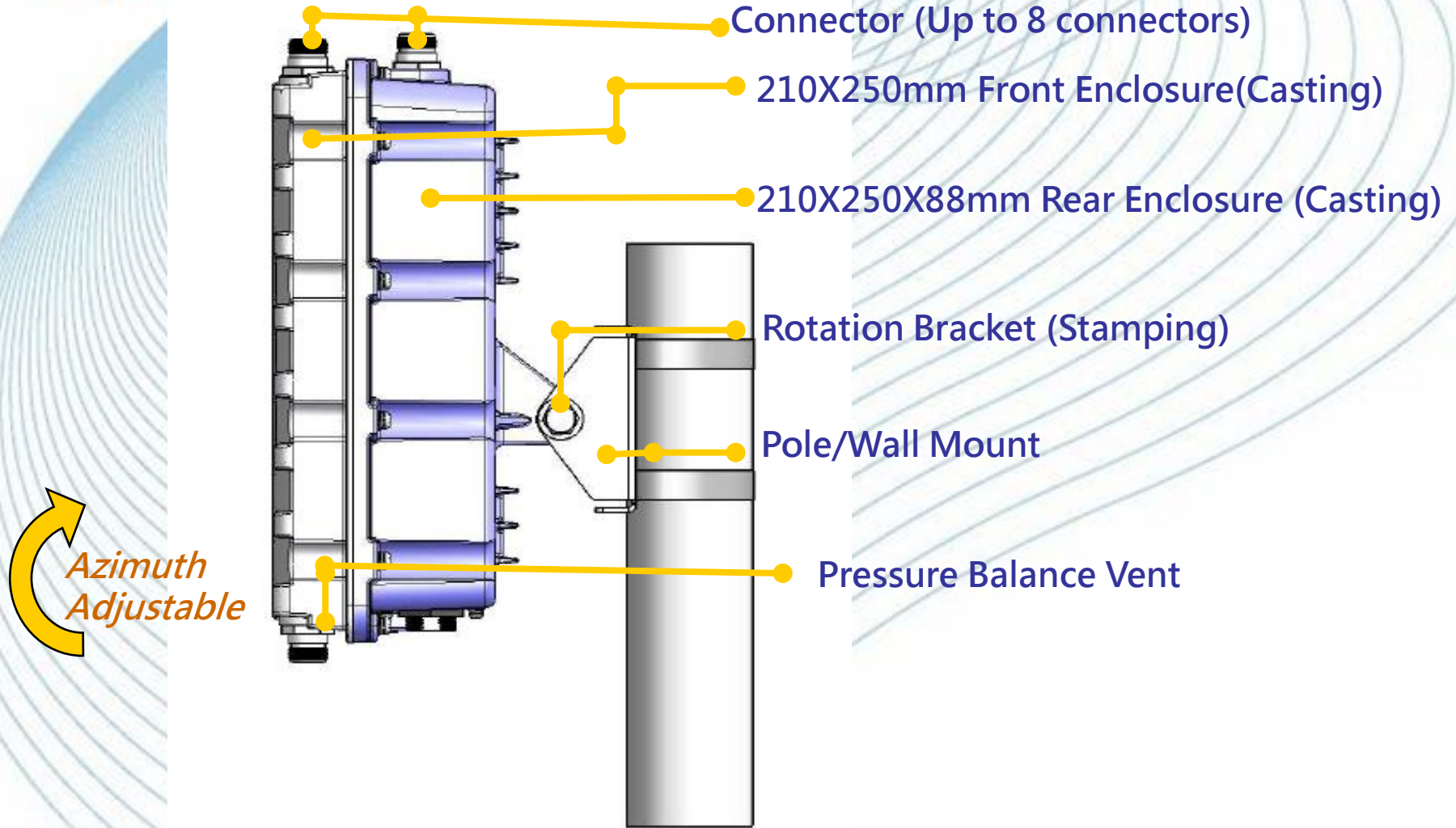
Type III:218\*218mm

# PRODUCT FEATURES

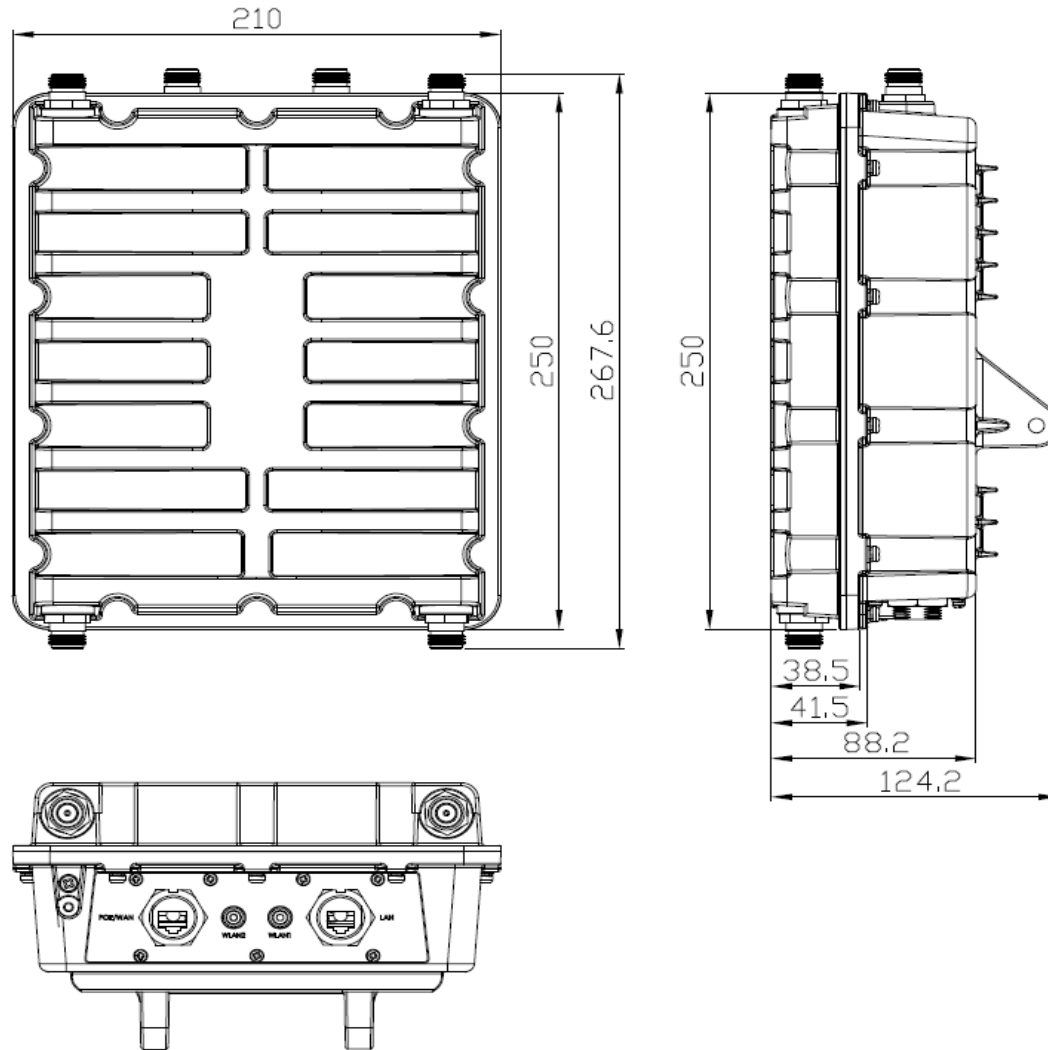
1. Reserve N jack ports for extend antennas.
2. High reliability mechanical design and parts can fit outdoor application.
3. Waterproof level up to IPX8, survival wind speed up to 216Km/Hr.
4. Easy setup and adjustment mounting kit.
5. Easy system reset design.
6. Compact size and low profile shape.
7. Can attach customized product label on plastic cover.



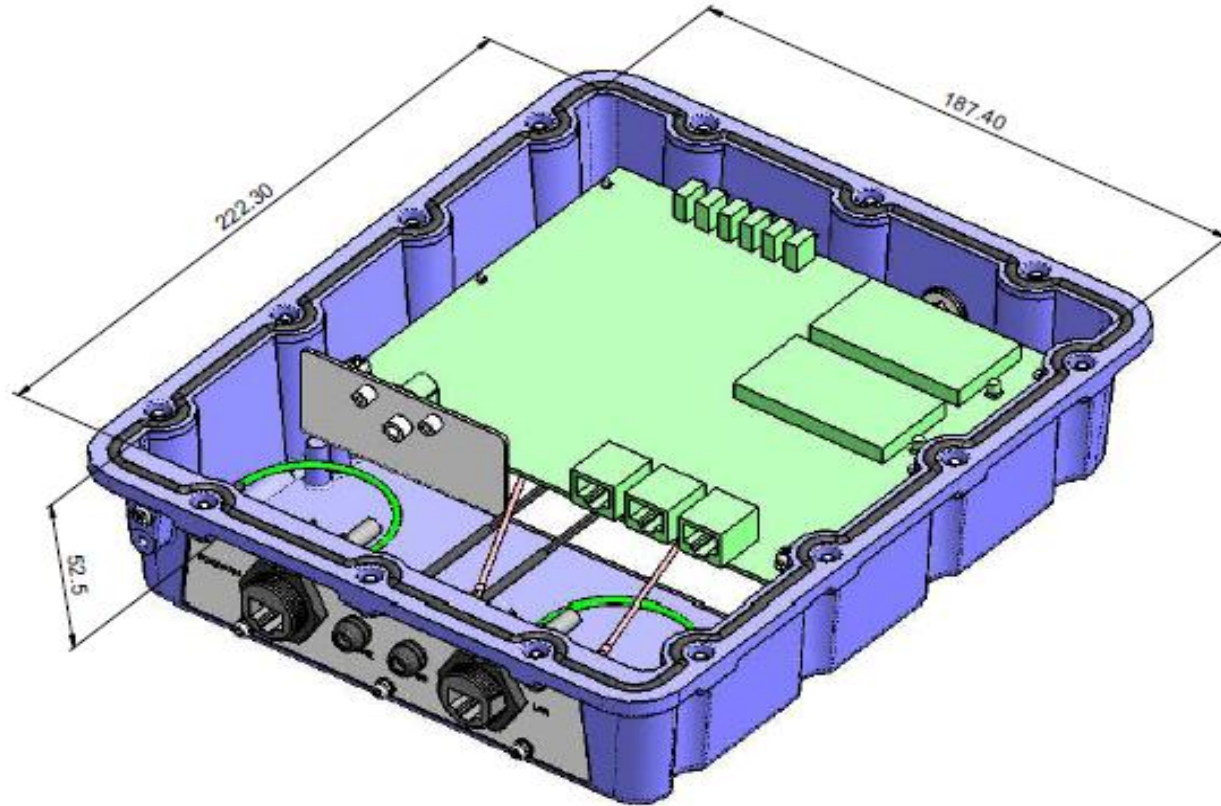
# Outdoor Die-Casting Enclosure Type I



# OUTLINE DRAWING(FRONT)



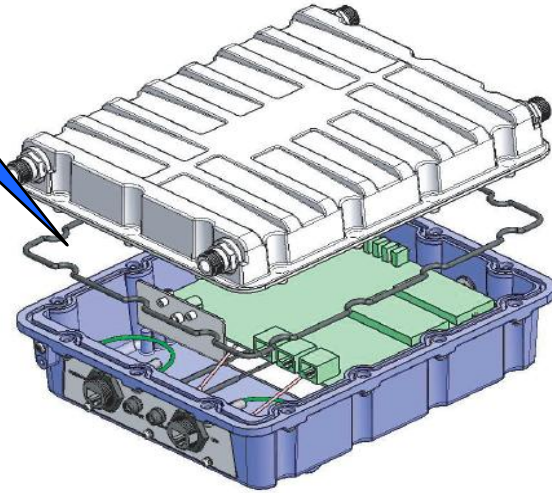
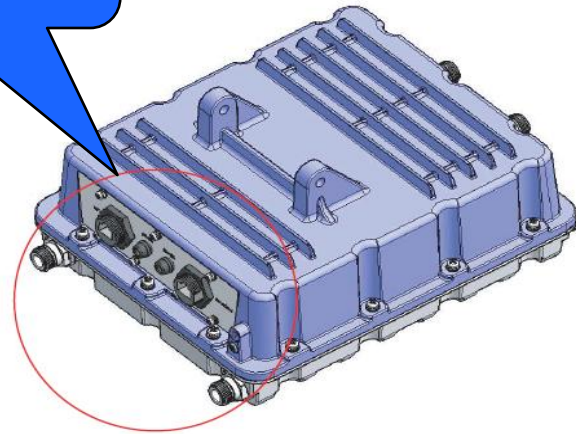
# Internal size



# OUTLINE DRAWING(REAR)

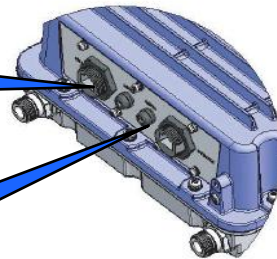
Can be customized according to customer needs

GASKET

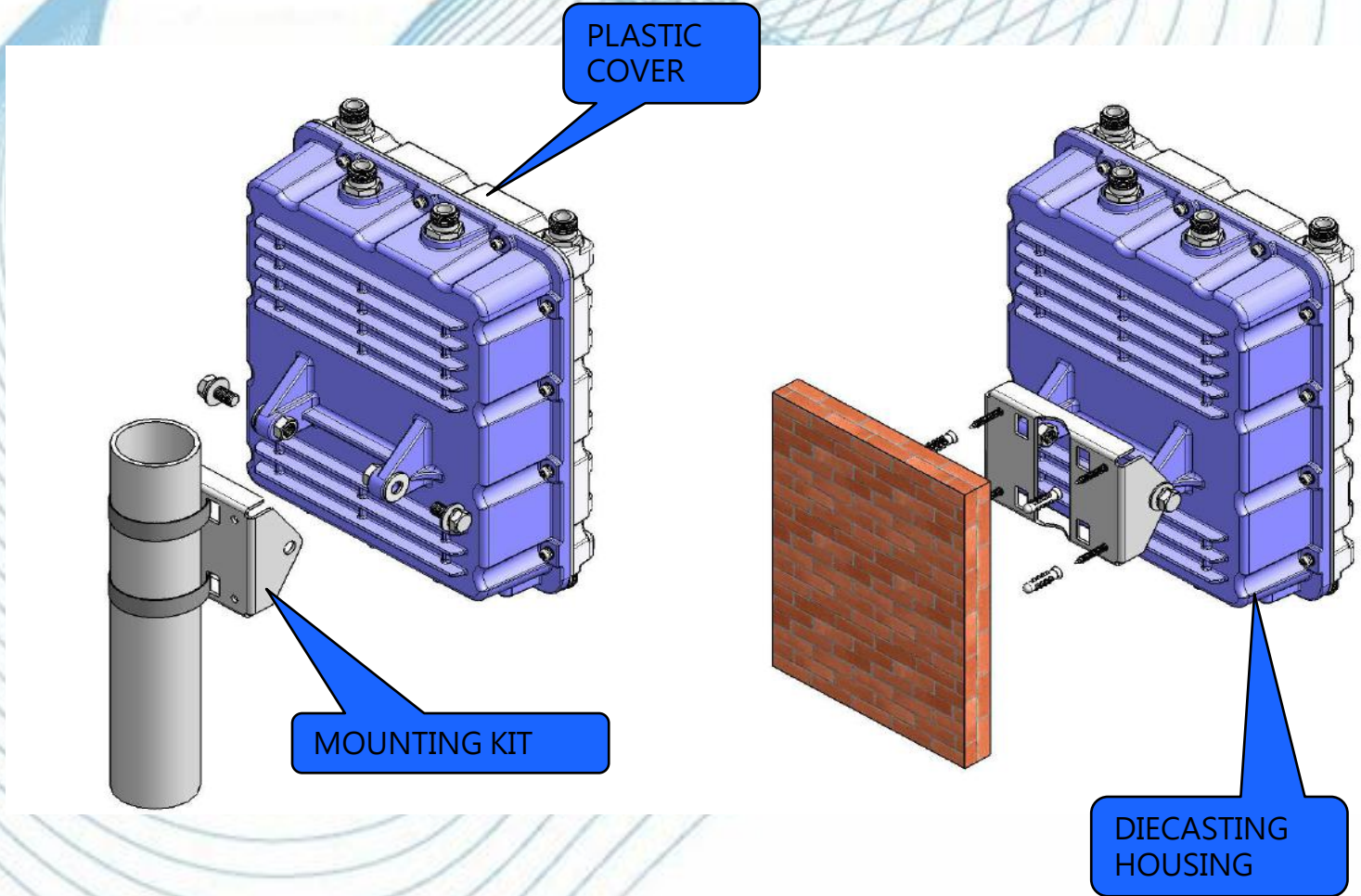


RJ45 PORT

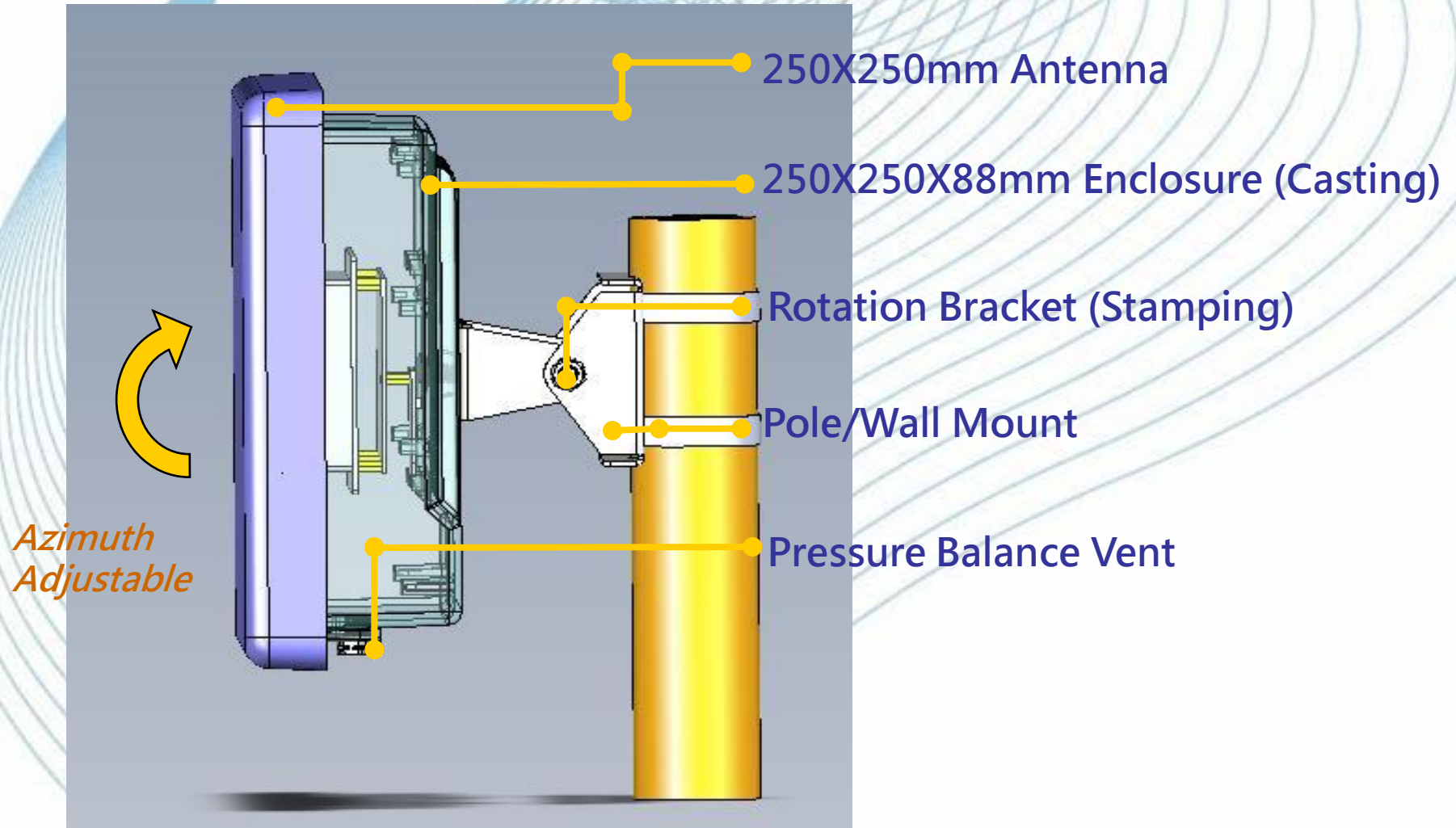
LED PORT



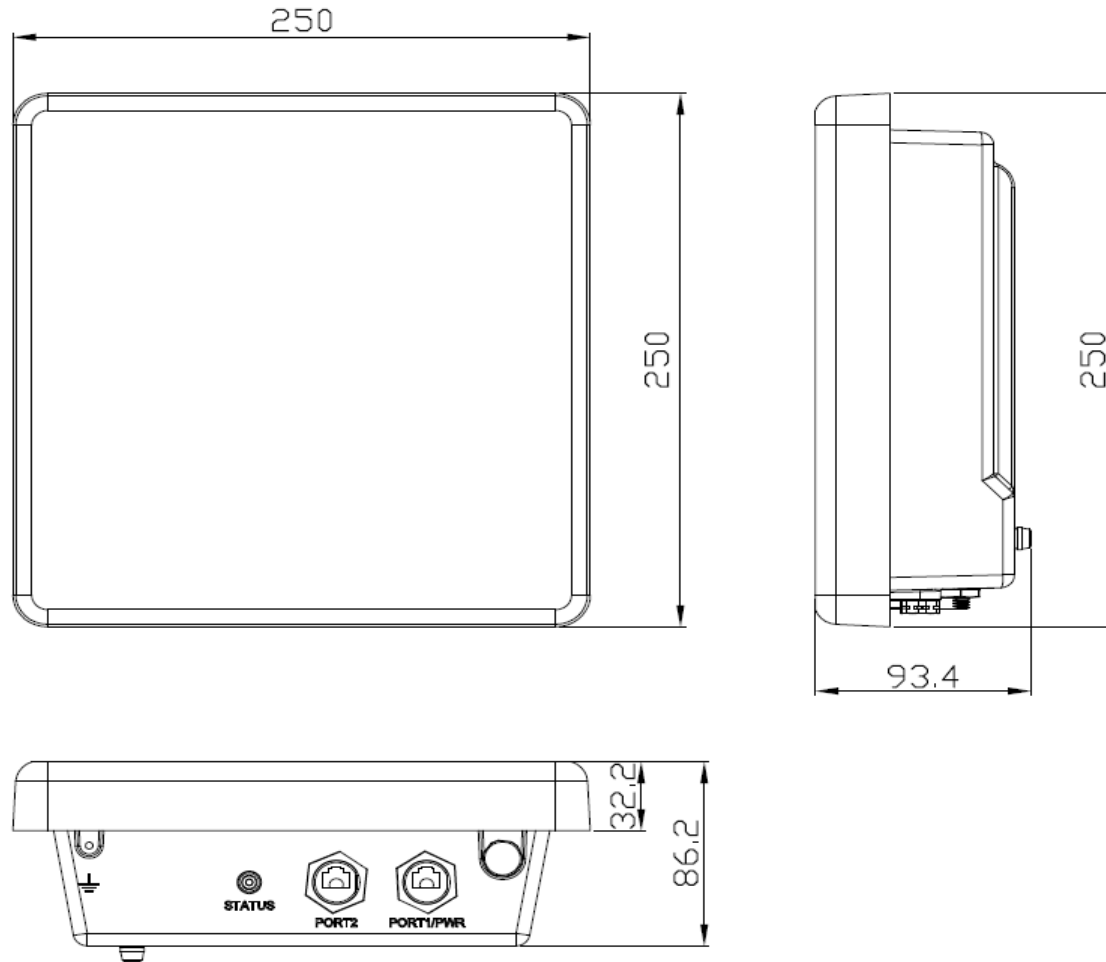
# MOUNTING INSTALL (POLE & WALL)



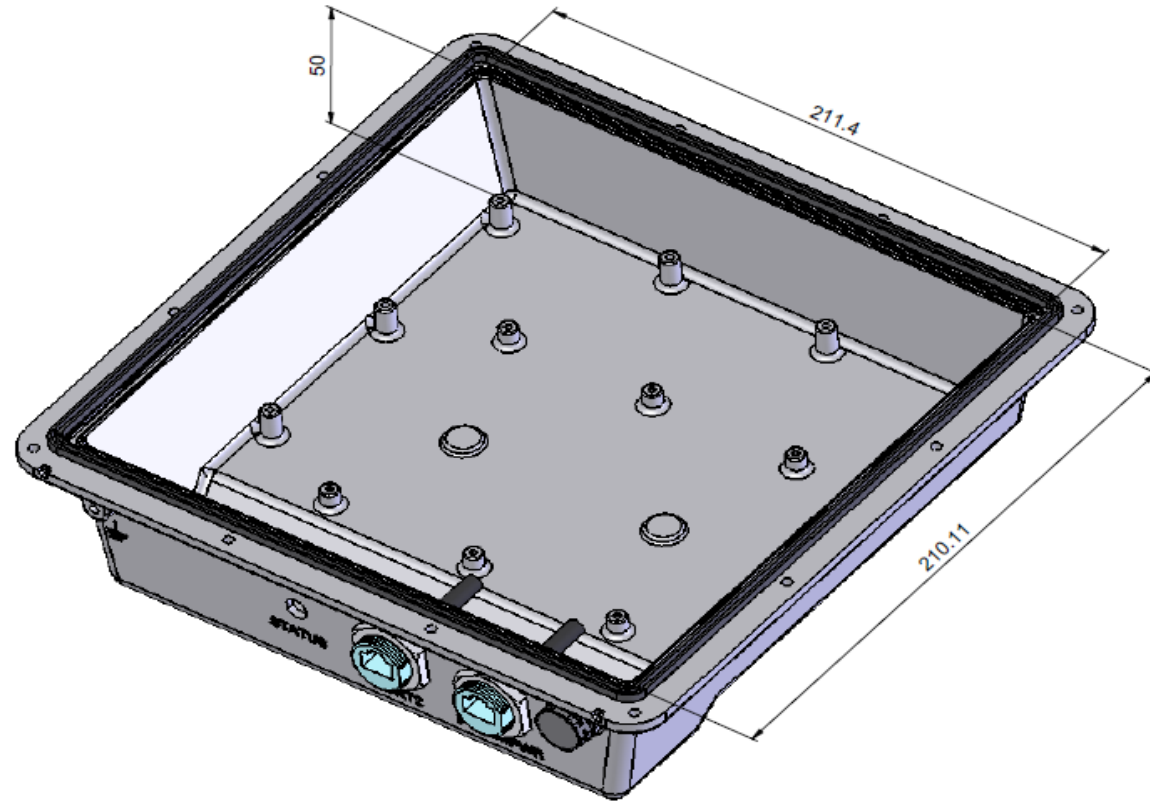
# Outdoor Die-Casting Enclosure Type II



# OUTLINE DRAWING(FRONT)



# Internal size





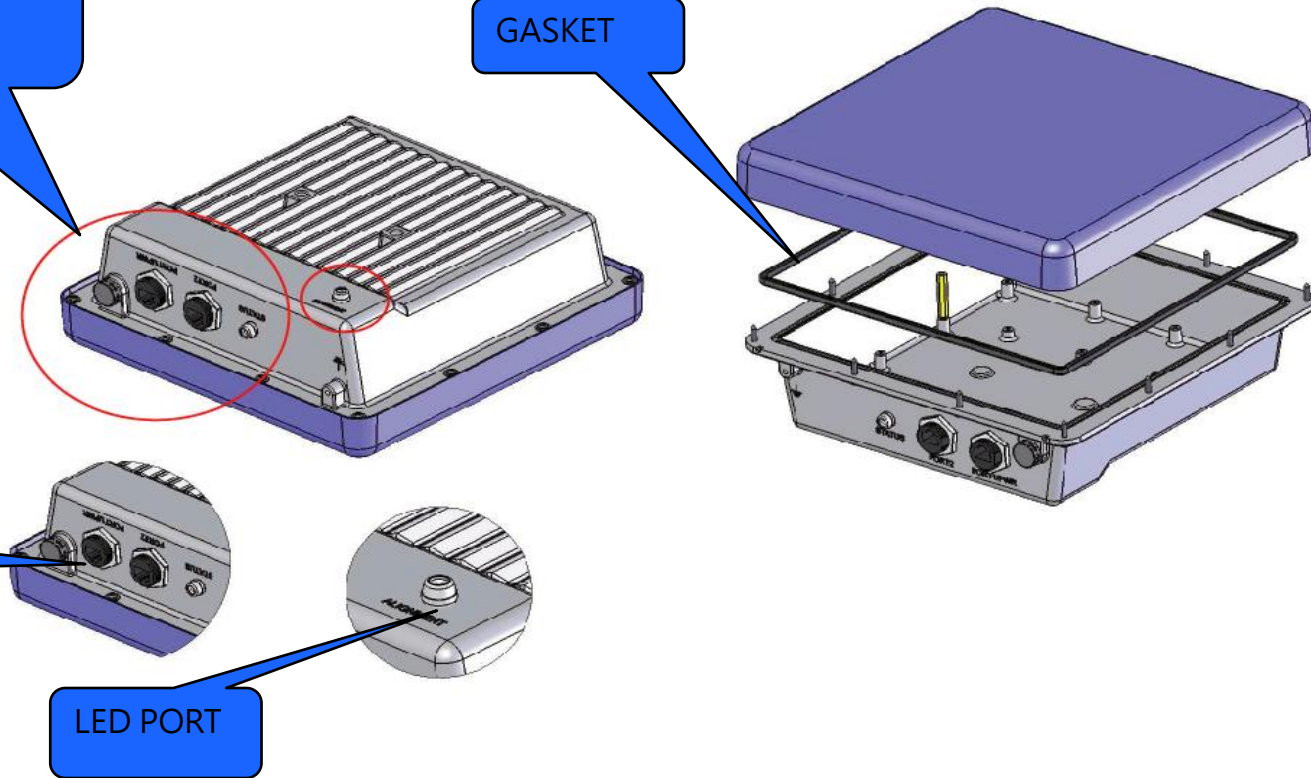
# OUTLINE DRAWING(REAR)

Can be customized according to customer needs

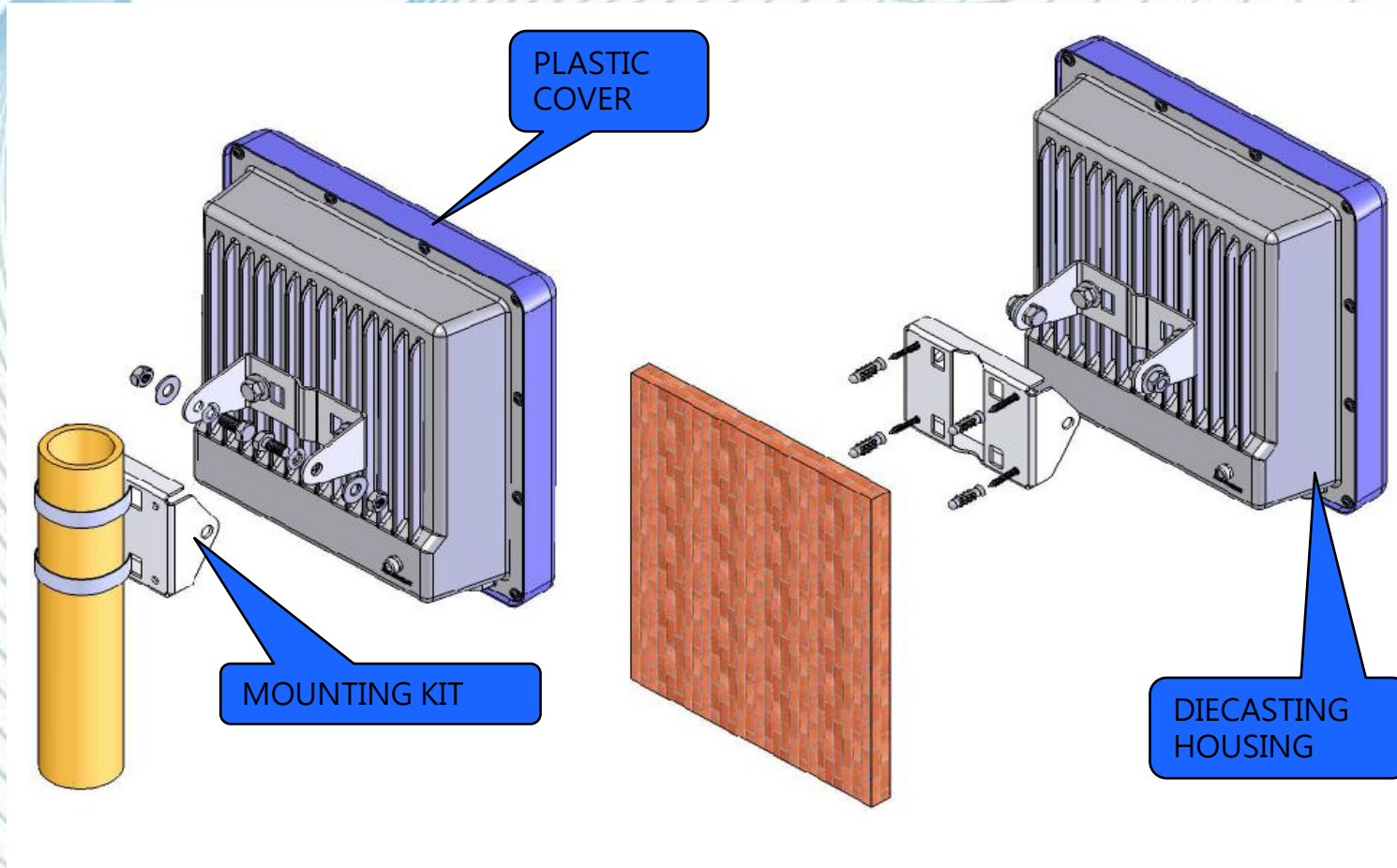
GASKET

RJ45 PORT

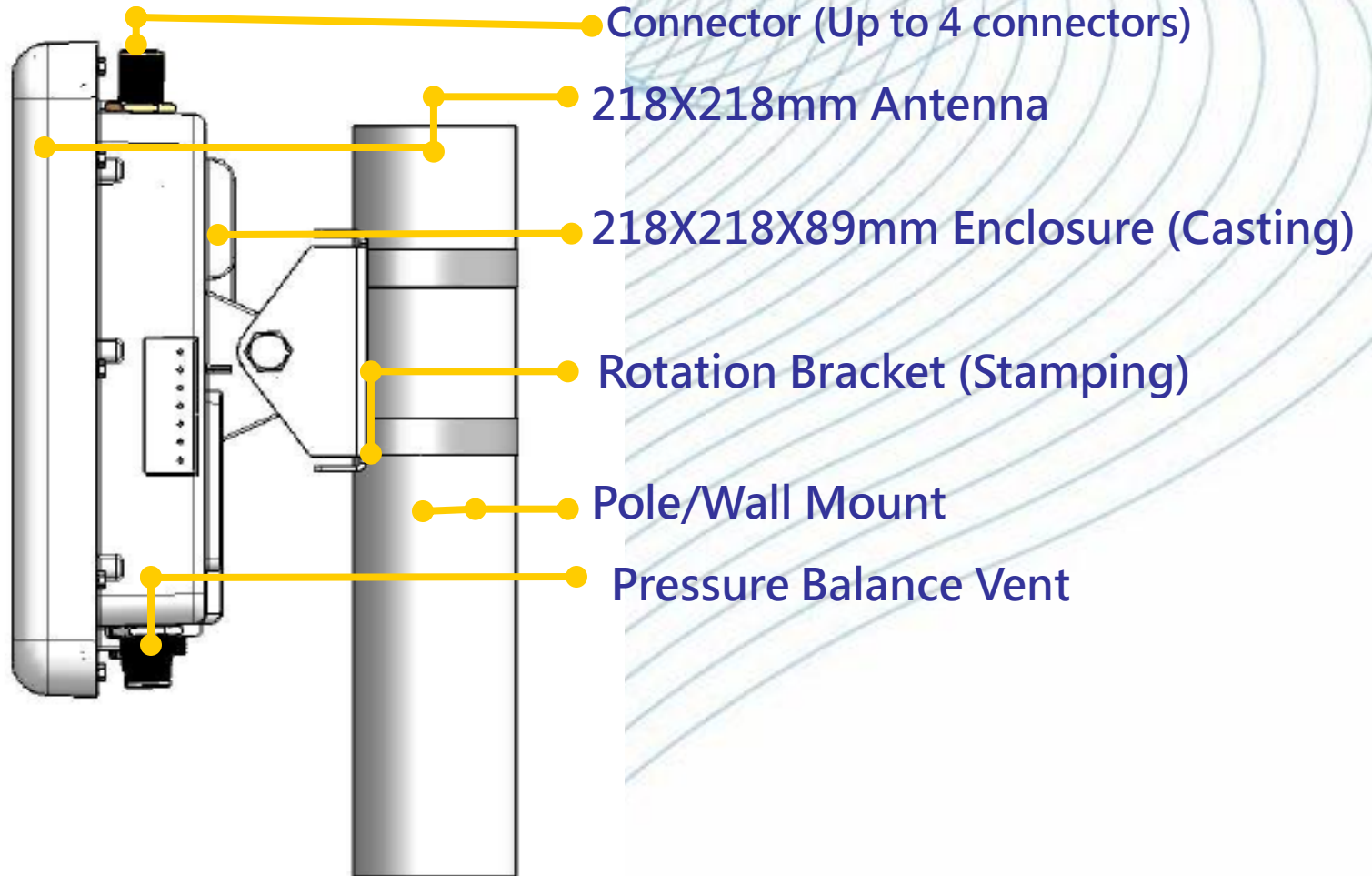
LED PORT



# MOUNTING INSTALL(POLE&WALL)

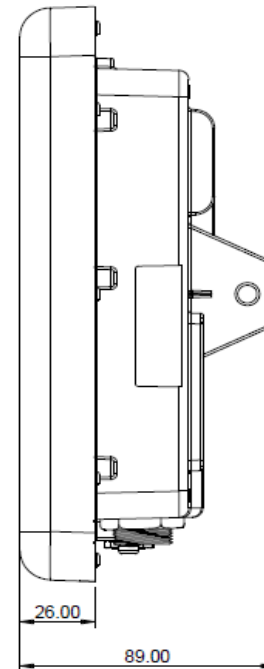
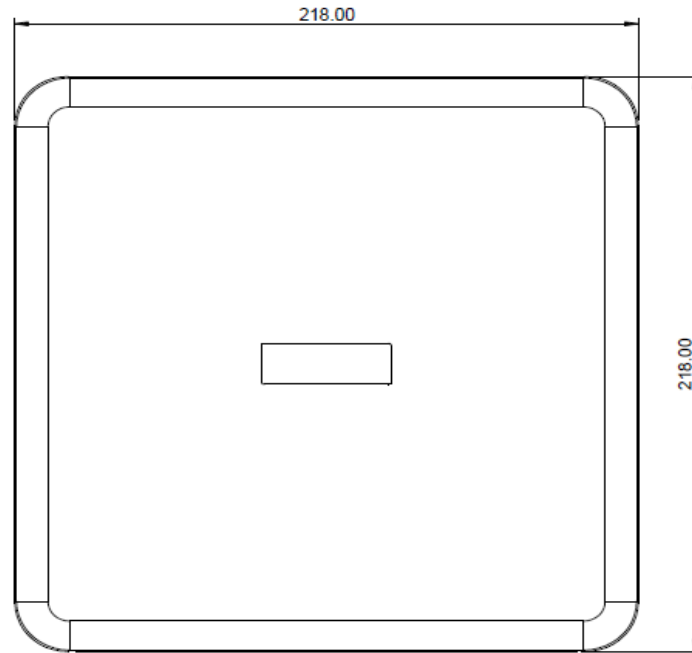
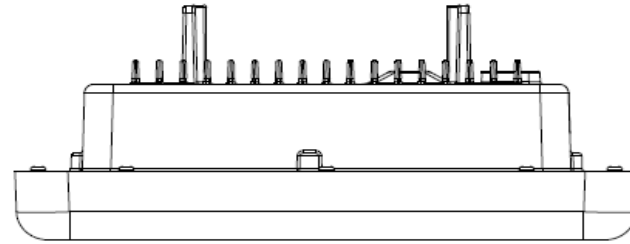


# Outdoor Die-Casting Enclosure Type III

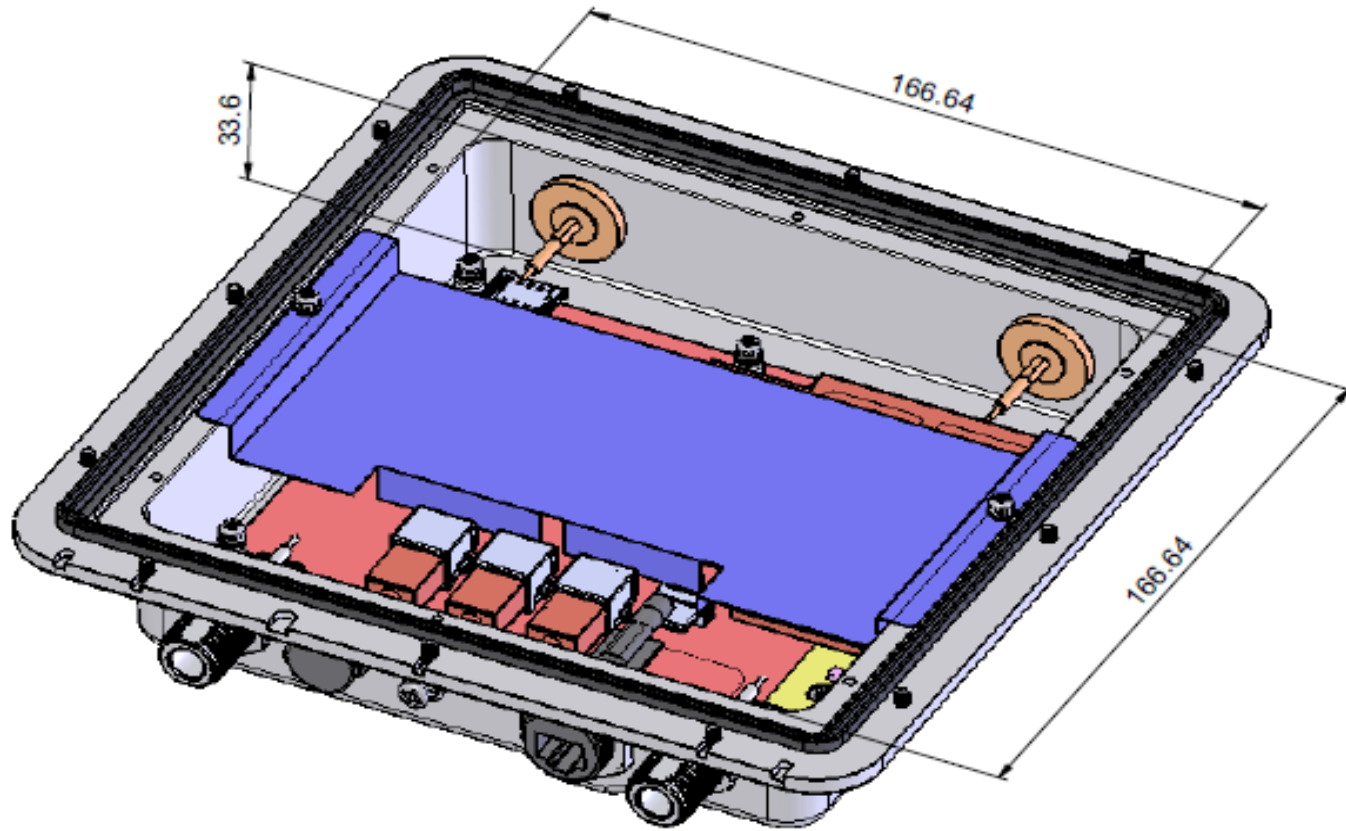


*Azimuth  
Adjustable*

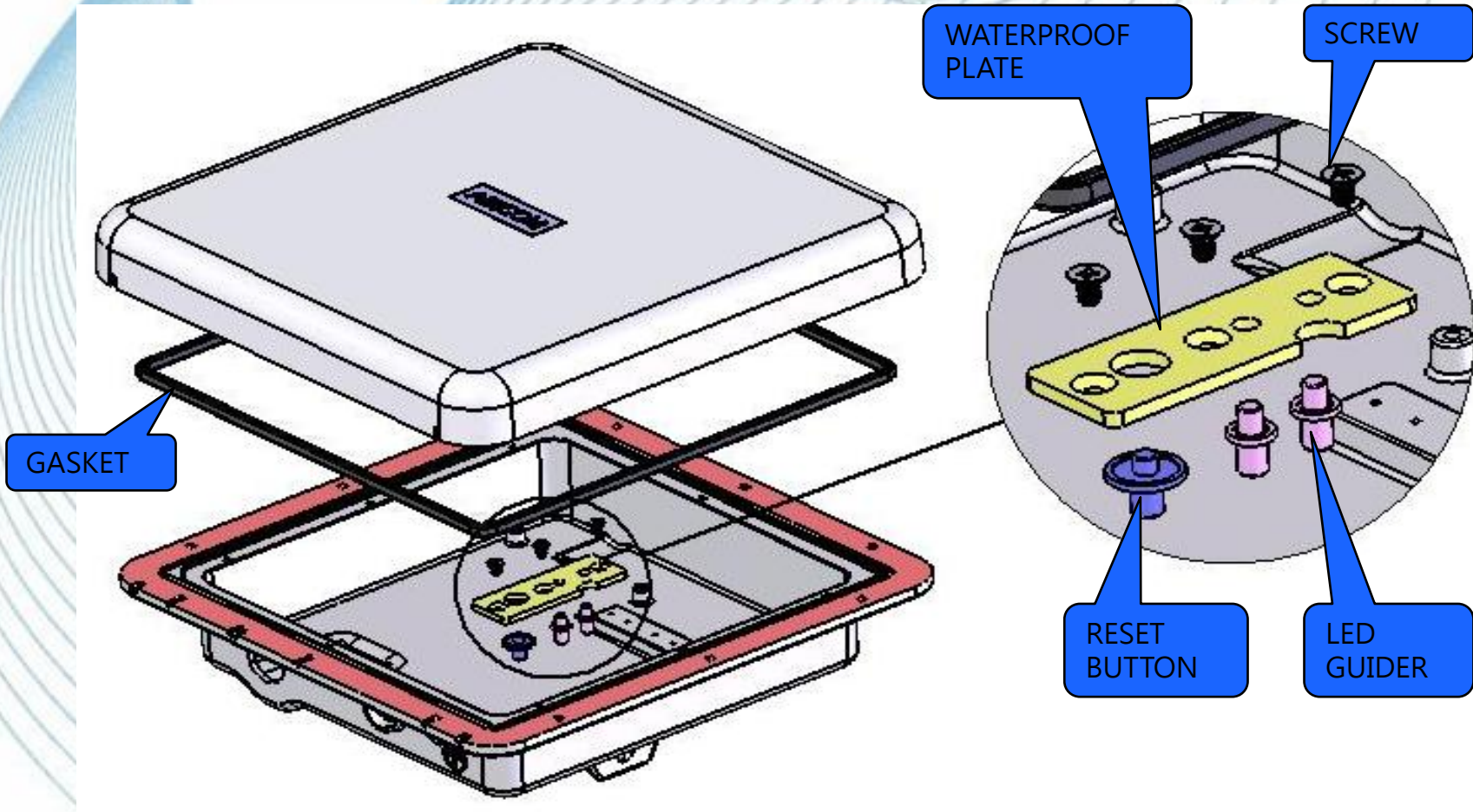
# OUTLINE DRAWING(FRONT)



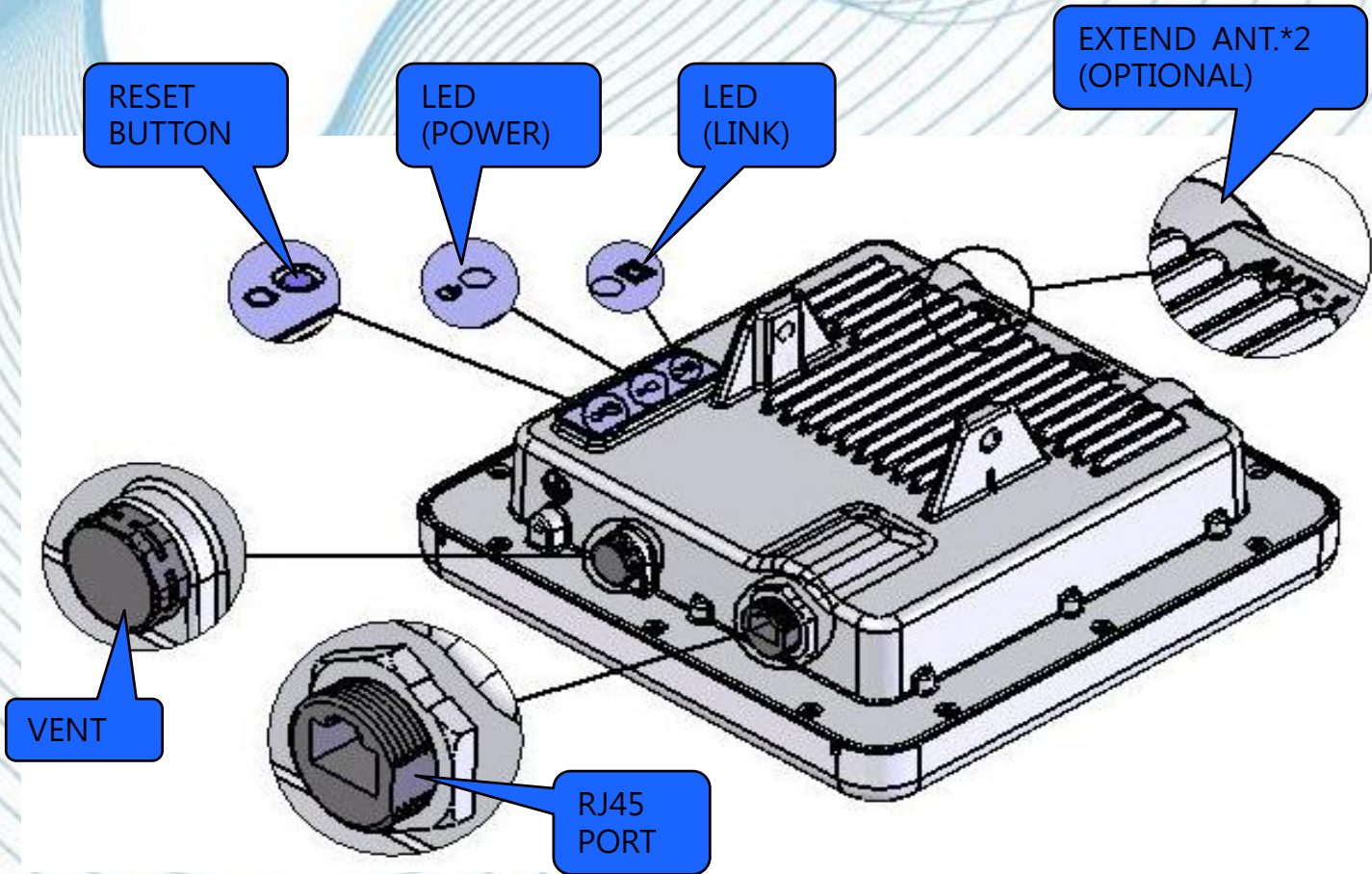
# Internal size



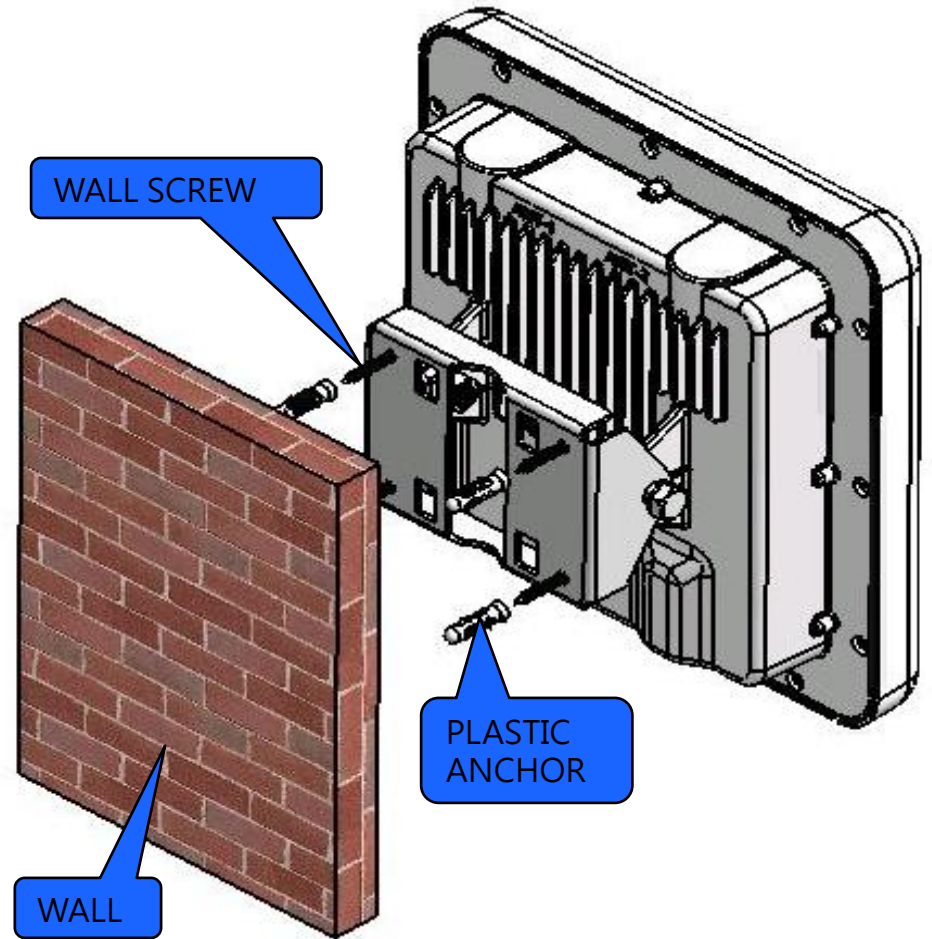
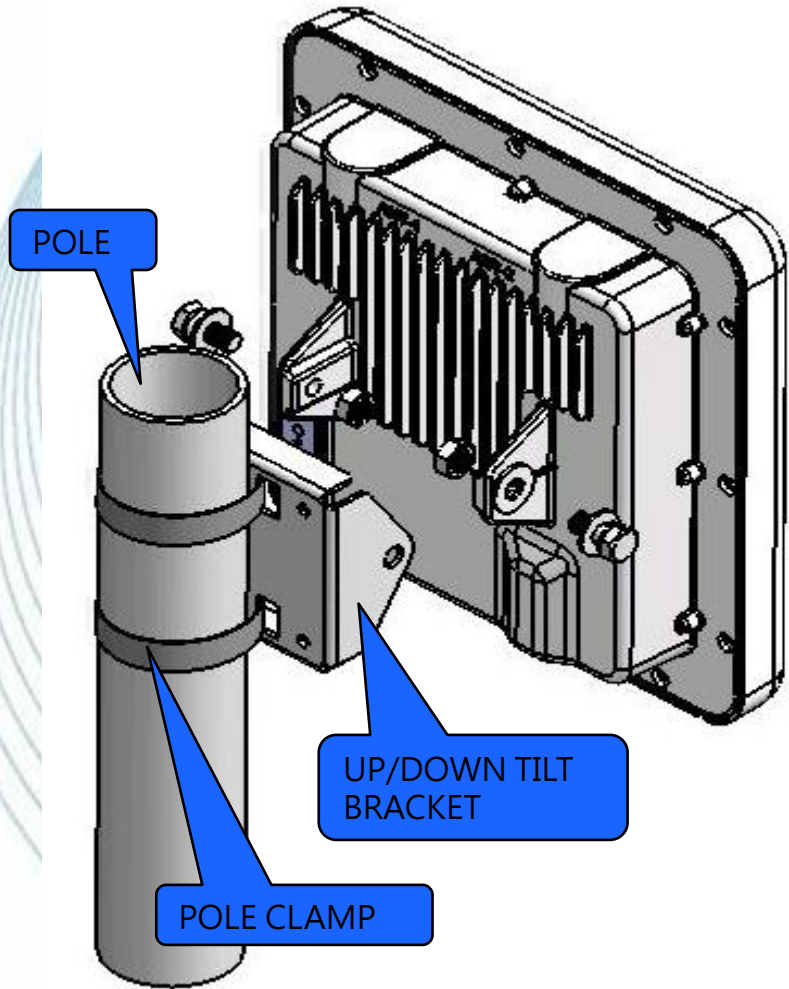
# OUTLINE DRAWING (INTERNAL)



# OUTLINE DRAWING(REAR)



# MOUNTING INSTALL(POLE&WALL)





# Discussion

E-mail: [service@smartant.com](mailto:service@smartant.com)  
<http://www.smartant.com>

