



SmartAnt

802.16 e Antenna Product List

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802.16 e Antenna Specifications



Model	SAA09-050070	SAA07-050610
Operating enviroment	Indoor	Indoor
Radiation	Dual Polarization Directional	Swivel Directional Panel

Electrical Specificaiton

Frequency Range	2300 - 2700MHz		2500-2700MHz
Gain	9 - 10 dBi	9 - 10 dBi	7.5- 8 dBi
VSWR	2.0 : 1 (Max.)	2.0 : 1 (Max.)	2.0 : 1 (max.)
Polarization	Linear, Horizontal	Linear, Vertical	Liner, Vertical
HPBW/Horizontal	44° - 51°	59° - 66°	70°/60°
HPBW/vertical	59° - 66°	44° - 51°	60°
Downtilt	—	—	—
Front to back ratio	±13 dB (Max.)	±13 dB (Max.)	—
Power handling	10 W (cw)	—	2W(cw)
Impedance	50ohm	—	50ohm
Cable	—	—	—
Connector	SMA jack	SMA jack	RP SMA Plug

Enviromental &Mechanical Characteristics

Survival wind speed	—	—
Temperature	-10°C ~ 55°C	-10°C ~ 55°C
Humidity	95% at 55°C	95% at 55°C
Radome	ABS, UV resistant	—
Water resistant	N/A	N/A
Weight	130 g	47 g
Dimension	ø133 x 42 mm	122.2 x 69 x 14 mm



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802.16 e Antenna Specifications



SAA08-050680

SAA09-050410

Indoor

Outdoor

Dual Polarization Directional

Dual Polarization Directional Sector

2300MHz - 2700 MHz

10.5 dBi (typ.)	10.5 dBi (typ.)
2.0: 1Max.	
Linear, +45°	Linear, -45°
63° - 67°	63° - 67°
22° - 27°	22° - 27°
—	—
+25 dB (Max.)	+25 dB (Max.)
10 W (cw)	
50ohm	
—	—
SMA jack	SMA jack

2300MHz - 2700 MHz

13.5 - 14.5 dBi	13.5 - 14.5 dBi
2.0 : 1 (Max.)	
Linear, +45°	Linear, -45°
58° ± 2°	58° ± 2°
16° ± 2°	16° ± 2°
—	—
+16 dB (Max.)	+16 dB (Max.)
10 W (cw)	
50ohm	
—	—
N Jack	N Jack

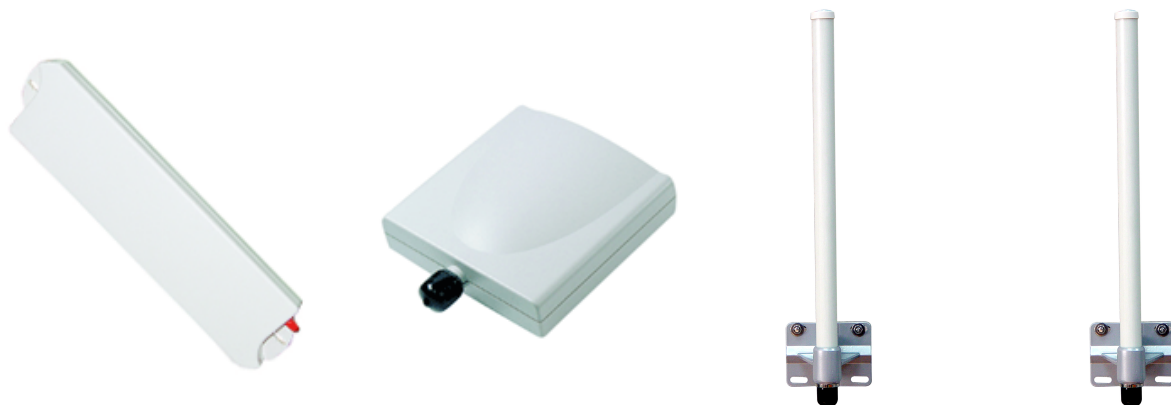
—
-10°C ~ 55°C
95% at 55°C
ABS, UV resistant
IPX5
200 g
330 x 93 x 21.4 mm

216 km/hr
-40°C ~ 80°C
95% at 55°C
PC, UV Resistant
IPX5
1.76 kg
503 x 112 x 65.7 mm



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802.11e Antenna Specifications



SAA06-050320

Indoor
Directional Panel

SAA06-050430

Outdoor
Directional Patch

SAA07-050860

Outdoor
Omni Directional

SAA07-050850

Outdoor
Omni Directional

2300- 2700MHz

9.5- 10.5dBi

2.0 : 1Max.

Liner, Vertical

70°

20°

—

15 dB

10W(cw)

50ohm

—

SMA Jack

2300-2700MHz

8.5 dBi

1.5: 1Max.

Liner, Vertical

61°-65 °

61°-65 °

—

+15 dB (Max.)

6W(cw)

50ohm

—

N jack

2300-2700MHz

10dBi

2.0 : 1Max.

Liner, Vertical

360°

10°

—

10W(cw)

50ohm

—

N jack

2300-2700MHz

8dBi

2.0 : 1Max.

Liner, Vertical

360°

15°

—

20W(cw)

50ohm

—

N jack

—
-10°C ~ 55°C
95% at 55°C
ABS, UV resistant
IPX5
0.2kg
327 x 80 x 22 mm

216km/hr
-40°C ~ 80°C
95% at 55°C
ABS, UV resistant
IPX5
107 g
114 x 114 x 40 mm

216km/hr
-40°C ~ 80°C
95% at 55°C
Fiber glass, UV resistant
IP67
1.72 kg
1175 x 75 x 80 mm

—
-40°C ~ 80°C
95% at 55°C
Fiber glass, UV resistant
IP67
0.28 kg
80 x 78 x 582 mm



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802.16 e Antenna Specifications



SAA06-051020

Outdoor
Directional Sector

SAA08-050450

Outdoor
Dual Polarization Directional

2300-2700MHz

11.5 dBi/12 dBi

1.8:1 Max.

Linear, Vertical

120°

17°

—

—

20W(cw)

50ohm

—

N jack

2300MHz - 2700 MHz

16 - 17dBi

Linear, Vertical

18° - 25°

18° - 25°

+25 dB (Max.)

N jack

2.0 : 1 (Max.)

Linear, Horizontal

18° - 25°

18° - 25°

+25 dB (Max.)

N jack

20W (cw)

50ohm

—

216km/hr
-40°C ~ 80°C
95% at 55°C
ABS, UV resistant
IPX5
0.7 kg
440 x 112 x 66 mm

Standard compliance: Co-pol. ETSI EN 301 525

-40°C ~ 80°C
95% at 55°C
ABS, UV resistant
IP67
1.1 kg
320 x 320 x 18 mm