

APX-110N5

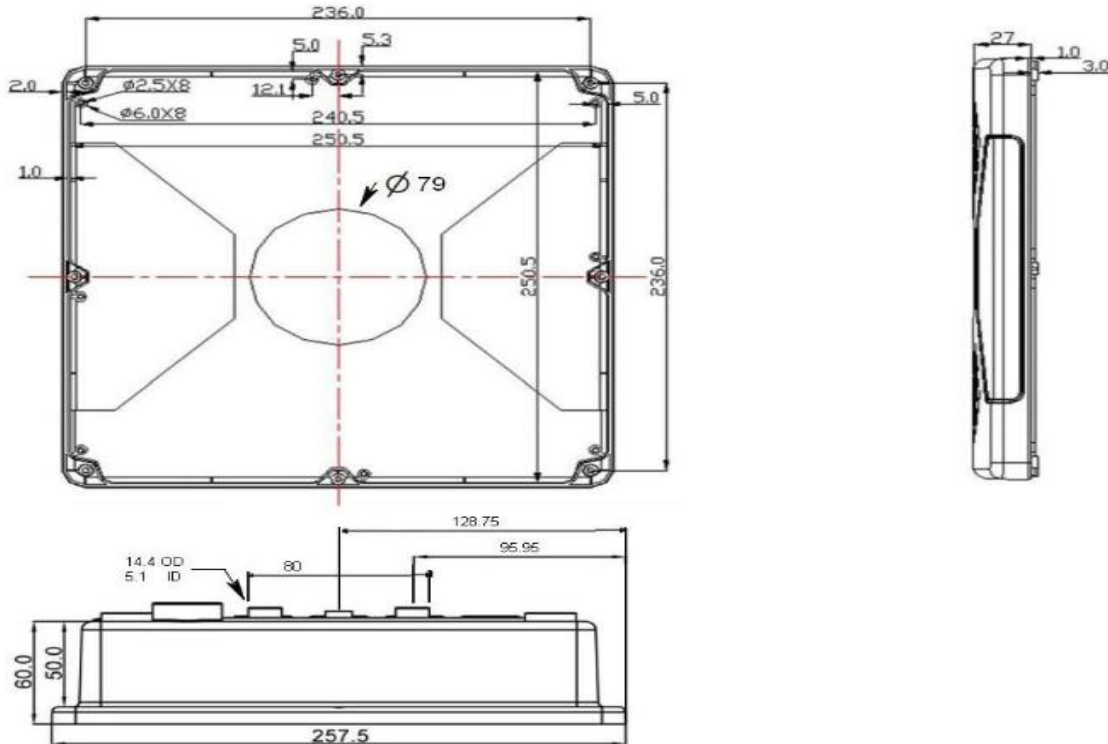
Outdoor IP67 IEEE 802.11a/n Wireless AP/Client/Bridge w/built-in 19dBi@5GHz Antenna

Features

- ▶ All-in-One Wireless AP/Client/Bridge
- ▶ IP67 Outdoor Waterproof Housing Design
- ▶ IEEE 802.11a/n Compliant
- ▶ Maximum Data Rate: 300Mbps
- ▶ Supports IEEE 802.11i / 802.1x Authentication
- ▶ PD (Power Device) IEEE 802.3af Compliant
- ▶ Built-in 5GHz 19dBi Dual-polarization antenna
- ▶ Long distance communication
- ▶ Adjustable Antenna Elevation (25 ° Up/Down)
- ▶ Internal Antenna Signal Strength Indication by Web Console
- ▶ Temperature Range: -20 to 70 °C
- ▶ Pole Mounting Bracket is included
- ▶ 2 Year Warranty



▶ Dimensions



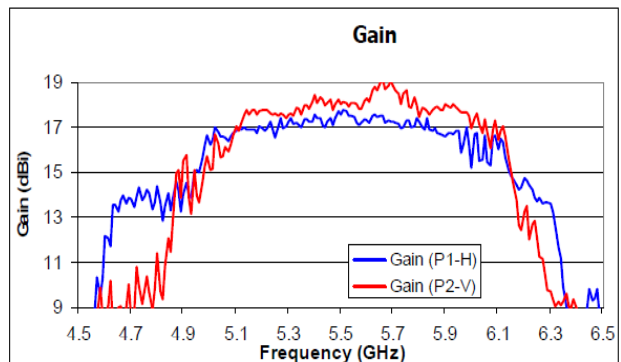
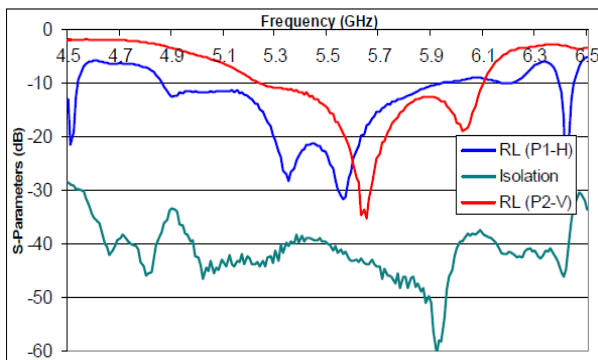
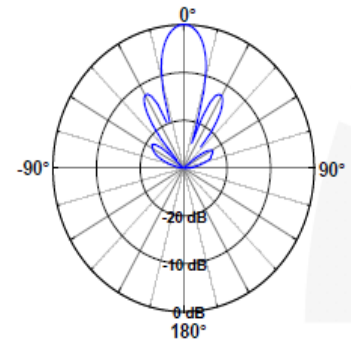
▶ Radio Specification

		DataRate	TX Power(aggregate power)		Tolerance	
802.11a		6-24Mbps	26dBm		±2dB	
		36Mbps	24dBm		±2dB	
		48Mbps	23dBm		±2dB	
		54Mbps	21dBm		±2dB	
DataRate	TX Power (aggregate power)	Tolerance	DataRate	TX Power (aggregate power)	Tolerance	
5GHz 11n HT 20	MCS 0/8	±2dB	MCS 0/8	24dBm	±2dB	
	MCS 1/9	±2dB	MCS 1/9	24dBm	±2dB	
	MCS 2/10	±2dB	MCS 2/10	22.5dBm	±2dB	
	MCS 3/11	±2dB	MCS 3/11	22.5dBm	±2dB	
	MCS 4/12	±2dB	MCS 4/12	22dBm	±2dB	
	MCS 5/13	±2dB	MCS 5/13	20.5dBm	±2dB	
	MCS 6/14	±2dB	MCS 6/14	20.5dBm	±2dB	
	MCS 7/15	±2dB	MCS 7/15	17dBm	±2dB	
RX SPECIFICATIONS						
Data Rate	Sensitivity (2 chains)	Tolerance	Data Rate	Sensitivity (2 chains)	Tolerance	
802.11a	6M	±2dB	24M	-90dBm	±2dB	
	9M	±2dB	36M	-87dBm	±2dB	
	12M	±2dB	48M	-83dBm	±2dB	
	18M	±2dB	54M	-80dBm	±2dB	
5GHz 11n HT 20	MCS0	±2dB	MCS0	-92dBm	±2dB	
	MCS1	±2dB	MCS1	-90dBm	±2dB	
	MCS2	±2dB	MCS2	-87dBm	±2dB	
	MCS3	±2dB	MCS3	-84dBm	±2dB	
	MCS4	±2dB	MCS4	-82dBm	±2dB	
	MCS5	±2dB	MCS5	-78dBm	±2dB	
	MCS6	±2dB	MCS6	-76dBm	±2dB	
	MCS7	±2dB	MCS7	-74dBm	±2dB	

Specifications of 19dBi 5GHz Antenna

Gain	19dBi
Radiation	Directional
Frequency Range	5.1-5.9 GHz
Polarization	Dual Polarization
Azimuth -3dB Beamwidth	Horizontal(Port 1): 17 degrees Vertical(Port 2): 17degrees
Elevation -3dB Beamwidth	Horizontal(Port 1): 17 degrees Vertical(Port 2): 17degrees
Isolation	-40dB (Max)
Front-to-Back Ratio	-25dB (Max)
VSWR	Horizontal(Port 1):<1: 1.87 Vertical(Port 2): <1: 2.00
Cross Polarisation Isolation	-27dB (Max)
SideLobe	-12dB

H-Pol Elevation (Port 2 - V)



► Specifications

Interface

Ethernet Port	1 x RJ45 - 10/100BaseT(X)
Antenna	Integrated 5GHz 19dbi directional dual-polarization antenna
LED	Power, Ethernet Link/ACT, Diagnostic, Signal Strength

Technology

Protocol	IP, DHCP, HTTPS, SNMP v1/v2, Trap, STP
IEEE	IEEE 802.3, IEEE 802.3u, IEEE 802.3x
Transmit Power	Controllable Power Output (1dB per step)
WLAN Operation Mode	AP / Client / Bridge
Encryption Security	IEEE 802.11i PSK (256-bit Key Pre-shared Key Supported) 802.1x and RADIUS Supported
Wireless Security	ESSID Broadcast Disable, MAC Address Filter

Frequency Range

IEEE 802.11a/n	5.150 ~ 5.350 GHz, 5.470 ~ 5.725GHz, 5.725 ~ 5.850 GHz (US & Canada) 5.150 ~ 5.350 GHz, 5.470 ~ 5.725GHz, 5.725 ~ 5.875 GHz (Europe) 5.150 ~ 5.250 GHz, 5.250 ~ 5.350GHz, 5.470 ~ 5.725GHz(Japan)
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Power

Protection	Ground Terminal built into pole mounting screw
Power Input	PoE
PoE standard	IEEE 802.3af
Power Consumption	7.5 Watts
Radio Power	800mW

Mechanical Characteristics

Housing	IP67 ABS Flame Retardant Plastic
Dimensions	86 x 257 x 257 mm (3.39 x 10.11 x 10.11 in.)
Weight	Unit Weight: 1.85 lbs. Shipping Weight: 3.75 lbs
Mounting	Pole mounting (Bracket Included)

Environmental Limits

Operating Temperature	STD: -20° to 70° C
Storage Temperature	-40°C ~ 90°C
Ambient Relative Humidity	5 to 95%, (non-condensing)

Regulatory Approvals

Green	RoHS Compliant
FCC	This device complies with part 15 of the FCC Rules
Warranty	2 Years

► Ordering Information

APX-110N5	Outdoor IP67 IEEE 802.11a/n Wireless AP/Client/ Bridge, w/built-in 19dBi@5GHz Antenna
APX-120N5	Outdoor IP67 IEEE 802.11a/n Wireless Bridge (Pair of Units), w/built-in 19dBi@5GHz Antenna

Optional Accessories

PA-48-48-US	PoE Injector, Input 100-240VAC/2A, Output 48VDC/1A
LNP-201AG-T	Industrial IEEE 802.3af PoE injector
MDR-20-48	20 Watt Din-Rail Power Supply (48 VDC)