

# APX-120N5

Outdoor IP67 IEEE 802.11a/n Wireless Bridge (Pair of Units) w/built-in 19dBi@5GHz Antenna

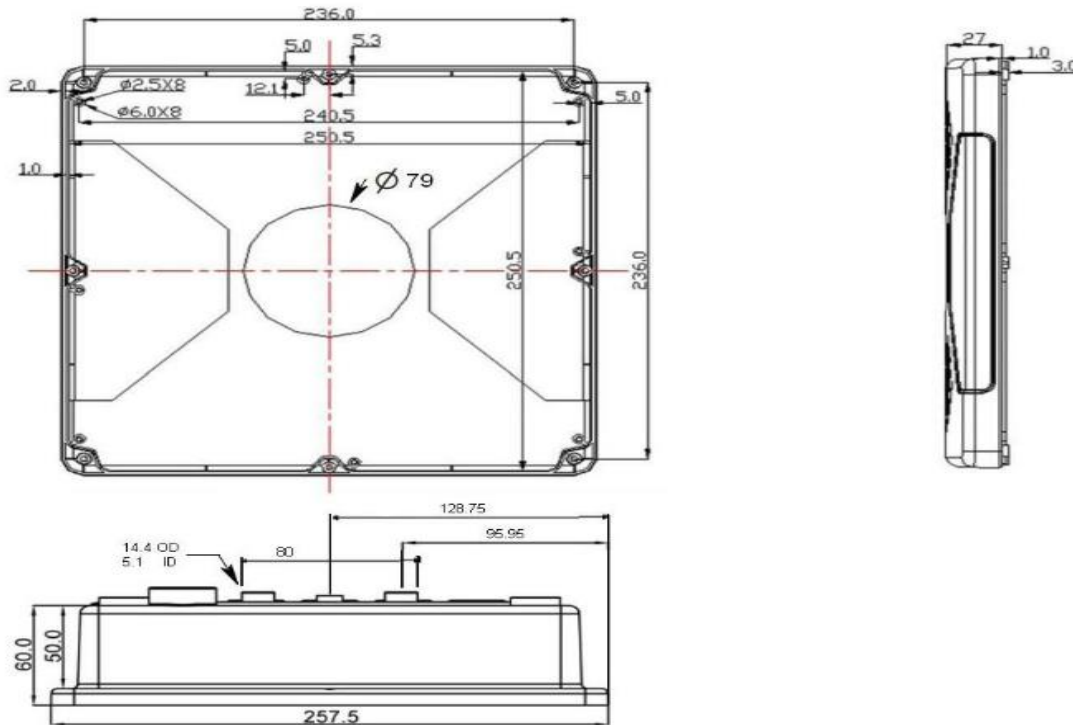
PRE-CONFIGURED  
PLUG & PLAY



## Features

- ▶ Point-to-Point Pre-configured Wireless 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



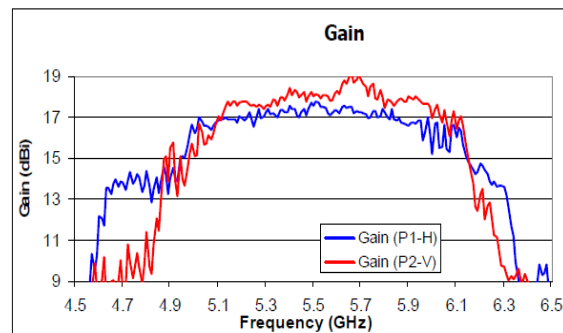
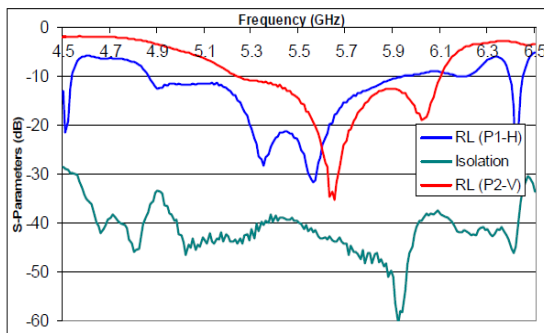
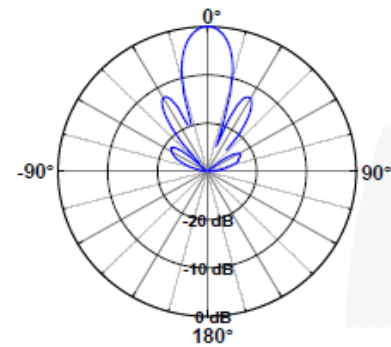
## ▶ Radio Specification

		DataRate	TX Power(aggregate power)		Tolerance		
<b>802.11a</b>		6-24Mbps	26dBm		±2dB		
		36Mbps	24dBm		±2dB		
		48Mbps	23dBm		±2dB		
		54Mbps	21dBm		±2dB		
RX SPECIFICATIONS							
		DataRate	TX Power (aggregate power)		Tolerance		
<b>5GHz 11n HT 20</b>		MCS 0/8	26dBm		±2dB		
		MCS 1/9	25dBm		±2dB		
		MCS 2/10	23.5dBm		±2dB		
		MCS 3/11	23.5dBm		±2dB		
		MCS 4/12	22.5dBm		±2dB		
		MCS 5/13	22dBm		±2dB		
		MCS 6/14	21dBm		±2dB		
		MCS 7/15	20dBm		±2dB		
<b>5GHz 11n HT 40</b>		MCS 0/8	24dBm		±2dB		
		MCS 1/9	24dBm		±2dB		
		MCS 2/10	22.5dBm		±2dB		
		MCS 3/11	22.5dBm		±2dB		
		MCS 4/12	22dBm		±2dB		
		MCS 5/13	20.5dBm		±2dB		
		MCS 6/14	20.5dBm		±2dB		
		MCS 7/15	17dBm		±2dB		
		Data Rate	Sensitivity (2 chains)		Tolerance		
<b>802.11a</b>		6M	-97dBm		±2dB		
		9M	-97dBm		±2dB		
		12M	-96dBm		±2dB		
		18M	-94dBm		±2dB		
<b>5GHz 11n HT 20</b>		MCS0	-97dBm		±2dB		
		MCS1	-94dBm		±2dB		
		MCS2	-92dBm		±2dB		
		MCS3	-87dBm		±2dB		
		MCS4	-84dBm		±2dB		
		MCS5	-80dBm		±2dB		
		MCS6	-79dBm		±2dB		
		MCS7	-77dBm		±2dB		
<b>5GHz 11n HT 40</b>		MCS0	-92dBm		±2dB		
		MCS1	-90dBm		±2dB		
		MCS2	-87dBm		±2dB		
		MCS3	-84dBm		±2dB		
		MCS4	-82dBm		±2dB		
		MCS5	-78dBm		±2dB		
		MCS6	-76dBm		±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	Wireless 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)