

APR-3100N

Industrial 802.11 a/b/g/n Wireless AP/VPN/Router



Features

- ▶ High Speed Air Connectivity: WLAN Interface Supports up to 300 Mbps Link Speed
- ▶ High Security Capability: WEP/WPA/WPA-PSK/WPA2/WPA2-PSK/WPA Enterprise/WPA2 Enterprise/ 802.1x / RADIUS Supported
- ▶ Various Kinds of WAN Connection Types Supported: Dynamic/Static IP, PPPoE, PPTP, L2TP
- ▶ WAN Access Restriction by URL Address or by Key Words
- ▶ Supports QoS
- ▶ Dual Redundant Ethernet Port
- ▶ Switch Mode Support: Daisy Chain Support to Reduce Usage of Switch Ports
- ▶ Wireless Connection Status Monitoring
- ▶ Event Monitoring by Syslog
- ▶ IP Table to Prevent Access from Unauthorized IP Address
- ▶ Supports VPN Setting (IPsec, Open VPN, PPTP, L2TP)
- ▶ Supports NAT Setting (Virtual Server, Port Trigger, DMZ, UPnP)
- ▶ 5-Year Warranty

INTRODUCTION

Antaira Technologies' APR-3100N series of wireless routers is designed to operate within industrial environments. The router provides a fast and effective means of communicating over a LAN via a wired or wireless connection. Multiple WAN connection types are provided for easy access to the internet. The APR-3100N series is an 802.11a/b/g/n high-performance wireless device. It is capable of data transfer rates up to 300 Mbps.

It is a fully manageable industrial Ethernet device that supports the standard Layer 3 Ethernet configurable settings. This product series is IP30 rated and DIN-rail mountable that provides a standard operating temperature range (-10°C to 60°C) and an extended operating temperature range (-35°C to 75°C).

RADIO SPECS

Data Rate	IEEE 802.11a :	54Mbps	48Mbps	36Mbps	24Mbps	18Mbps	12Mbps	9Mbps	6Mbps		
	IEEE 802.11b :	11Mbps	5.5Mbps	2Mbps	1Mbps						
	IEEE 802.11g :	54Mbps	48Mbps	36Mbps	24Mbps	18Mbps	12Mbps	9Mbps	6Mbps	automatically	
		Fallback to 5.5Mbps, 2Mbps, 1Mbps									
	IEEE 802.11n :	20MHZ	1Nss: 65Mbps @ 800GI, 72.2Mbps @ 400GI (Max.)								
			2Nss: 130Mbps @ 800GI, 144.4Mbps @ 400GI (Max.)								
3Nss: 195Mbps @ 800GI, 216.6Mbps @ 400GI (Max.)											
IEEE 802.11n :	40MHZ	1Nss: 135Mbps @ 800GI, 150Mbps @ 400GI (Max.)									
		2Nss: 270Mbps @ 800GI, 300Mbps @ 400GI (Max.)									
		3Nss: 405.5Mbps @ 800GI, 450Mbps @ 400GI (Max.)									
Frequency Range	IEEE802.11b/g/n:	2.412GHz ~ 2.462GHz (US & Canada)									
		2.412GHz ~ 2.472GHz (Europe)									
		2.412GHz ~ 2.484GHz (Japan)									
	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)									

SPECIFICATIONS

Interface	
Ethernet Port	2 x RJ45 - 10/100BaseT(X) which supports Switch Mode
Antenna Connectors	Single Radio Model: 2 x Reverse SMA
LED	Power, ACT, Fail, Ethernet Link/ACT, Signal Level
Technology	
Protocol	ICMP, IP, TCP, UDP, DHCP, BootP, ARP/RARP, DNS, SNMP MIB II, HTTPS, SNMP v1/v2, Trap, Private MIB
Transmit Power	19dBm@802.11a / 22dBm MIMO aggregate
WLAN Operation Mode	AP / VPN / Router
Modulation Techniques	OFDM: BPSK, QPSK, 16-QAM, 64-QAM DSSS: DBPSK, DQPSK, CCK
Encryption Security	WEP: 64-bit, 128-bit Key Supported WPA / WPA2: 802.11i (WEP and AES Encryption) PSK (256-bit Key Pre-shared Key Supported) 802.1x and RADIUS Supported TKIP Encryption
Wireless Security	SSID Broadcast Disable, 3 x Virtual Access Points, MAC Address Filter
Frequency Range	
IEEE 802.11 b/g/n	2.412GHz ~ 2.462GHz (US & Canada) 2.412GHz ~ 2.472GHz (Europe) 2.412GHz ~ 2.484GHz (Japan) 5.150 ~ 5.350 GHz, 5.470 ~ 5.725GHz, 5.725 ~ 5.850 GHz (US & Canada)
IEEE 802.11a/n	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)
Power Requirement	
Protection	Built-in 1.5KV Magnetic Isolation
Power Input	12 ~ 48VDC in 6-Pin Terminal Block
Reverse Polarity Protection	Present
Power Consumption	6 Watts

Mechanical Characteristics	
Housing	Metal, IP30 protection
Dimensions	46 x 155 x 115 mm (1.81 x 6.10 x 4.53 in.)
Weight	Unit Weight: 1.68 lbs. Shipping Weight: 2.0 lbs
Mounting	DIN-Rail mounting, wall mounting (optional)
Environmental Limits	
Operating Temperature	STD: -10° to 60° C; EOT: -35° to 70° C
Storage Temperature	-40°C ~ 90°C
Ambient Relative Humidity	5 to 95%, (non-condensing)
Regulatory Approvals	
EMI	FCC Class A
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	FCC
Warranty	5 Years

ORDERING INFO

APR-3100N	Industrial 802.11a/b/g/n wireless AP / VPN / Router
APR-3100N-T	Industrial 802.11a/b/g/n wireless AP / VPN / Router, with EOT: -35° C to 70° C
Optional Accessories	
DR-45-24	45W Industrial Din Rail Power Supply
DR-75-24	75W Industrial Din Rail Power Supply
SDR-120-24	120W Industrial Din Rail Power Supply