

# APR-4100NE

Industrial 802.11a/b/g/n Wireless AP/VPN/Router with LTE Cellular Modem



## Features

- ▶ High speed air connectivity: WLAN interface supports up to 300 Mbps link speed
- ▶ Cellular Modem with LTE, HSPA+, GSM, GPRS, EDGE up to 100 Mbps
- ▶ 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 .
- ▶ Supports Hot Spots (Chillispot, Hotspotsystem, WiFidog, HTTP Redirect)
- ▶ WAN access content 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)
- ▶ Dual redundant DC power inputs of terminal block
- ▶ Rigid IP-30 housing design
- ▶ DIN-Rail and panel mountable
- ▶ 5-Year Warranty

## Radio Specification

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.)										
	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)										

## Specification

### Interface

<b>Ethernet Port</b>	2 x RJ45 - 10/100BaseT(X) which supports Switch Mode
<b>Antenna Connectors</b>	Single Radio Model: 4x Reverse SMA
<b>LED</b>	Power ACT, DIAG, Ethernet Link/ACT, Signal Level, Fault

### Technology

<b>Protocol</b>	ICMP, IP, TCP, UDP, DHCP, BootP, ARP/RARP, DNS, SNMP MIB II, HTTPS, SNMP v1/v2, Trap, Private MIB
<b>Transmit Power</b>	18dBm@802.11a / 20dBm MIMO aggregate
<b>WLAN Operation Mode</b>	AP / VPN / Router
<b>Modulation Techniques</b>	OFDM: BPSK, QPSK, 16-QAM, 64-QAM DSSS: DBPSK, DQPSK, CCK WEP: 64-bit, 128-bit Key Supported WPA / WPA2: 802.11i (WEP and AES Encryption)
<b>Encryption Security</b>	PSK (256-bit Key Pre-shared Key Supported) 802.1x and RADIUS Supported TKIP Encryption
<b>Wireless Security</b>	SSID Broadcast Disable, Virtual Access Points, MAC Address Filter

### Frequency Range

<b>IEEE 802.11b/g/n</b>	2.412GHz ~ 2.462GHz (US & Canada) 2.412GHz ~ 2.472GHz (Europe) 2.412GHz ~ 2.484GHz (Japan)
<b>IEEE 802.11a/n</b>	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)

### Power Requirement

<b>Protection</b>	Built-in 1.5KV Magnetic Isolation
<b>Power Input</b>	12 ~ 48VDC in 6-Pin Terminal Block
<b>Reverse Polarity Protection</b>	Present
<b>Power Consumption</b>	6 Watts

### Mechanical Characteristics

<b>Housing</b>	Metal, IP30 protection
<b>Dimensions</b>	46 x 155 x 115 mm (1.81 x 6.10 x 4.53 in.)
<b>Weight</b>	Unit Weight: 1.68 lbs. Shipping Weight: 2.0 lbs
<b>Mounting</b>	DIN-Rail mounting, wall mounting

### Environmental Limits

<b>Operating Temperature</b>	STD: -10° to 60° C; EOT: -35° to 70° C
<b>Storage Temperature</b>	-40°C ~ 90°C
<b>Ambient Relative Humidity</b>	5 to 95%, (non-condensing)

### Regulatory Approvals

<b>EMI</b>	FCC Class A
<b>Free Fall</b>	IEC60068-2-32
<b>Shock</b>	IEC60068-2-27
<b>Vibration</b>	IEC60068-2-6
<b>Green</b>	RoHS Compliant
<b>Certifications</b>	FCC
<b>Warranty</b>	5 Years

## Cellular specification

### Air Interface

**Cellular** LTE, HSPA+, GSM/GPRS/EDGE

### Location solution

**Satellite Systems** GPS, Glonass

**Modes** Standalone, SUPL 2.0, XTRA 2.0

### Data Speed

**Download Rate** 100 Mbps

**Upload Rate** 50 Mbps

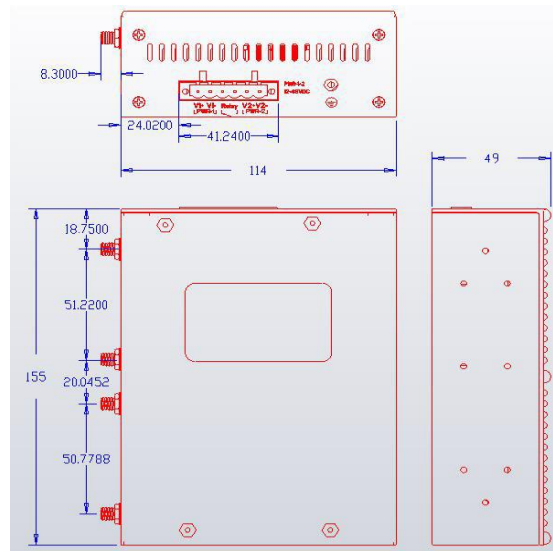
### Frequency Bands

**LTE** B1, B3, B7, B8, B20

**GSM/GPRS/EDGE** Quad-Band

## Dimensions

(W x D x H) is **49mm x 114mm x 155mm**



## Ordering information

**APR-4100NE** Industrial 802.11a/b/g/n LTE AP / VPN / Router

**APR-4100NE-T** Industrial 802.11a/b/g/n LTE AP / VPN / Router, with EOT: -35° C to 70° C