

# Industrial 802.11n Wireless Access Point



## Reliable High-Speed Industrial Wireless Access Point for Harden Environment

### Industrial Wireless LAN

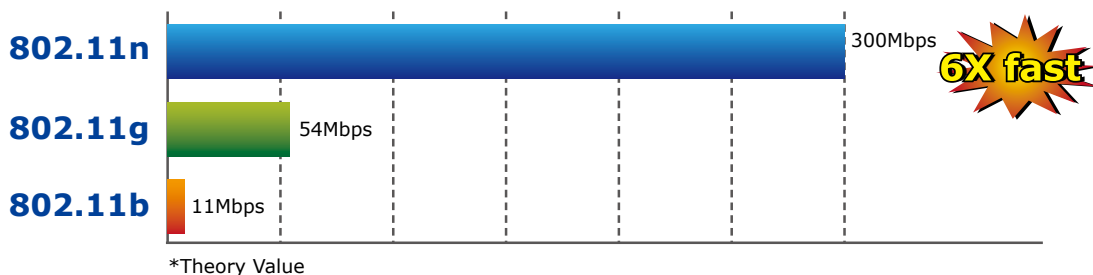
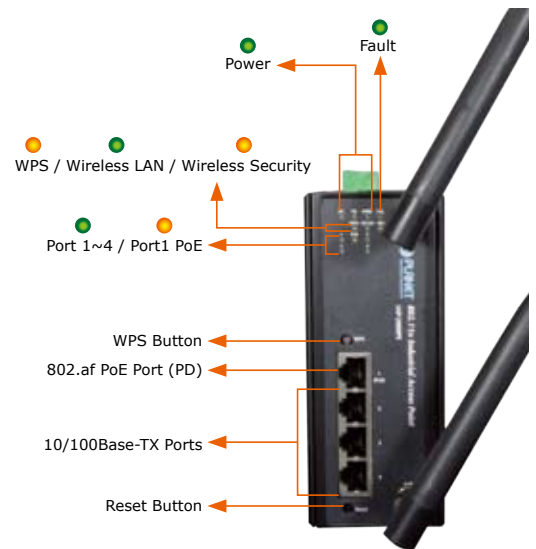
For robust Wireless access, the PLANET IAP-2000PE Industrial Access Point brings users a new choice. The IAP-2000PE is specially designed for the Wi-Fi application over a TCP/IP network in the harden environment. The IAP-2000PE comes with **802.11n Wireless** interface for up to **300Mbps** wireless performance and provides **4 x 10/100Mbps** copper ports with 1-Port IEEE **802.3af PoE PD** (Powered Device) inject interface delivered in an **IP30** rugged strong case. The IAP-2000PE is rated to operate at the temperature from -10 to 60 Degree C. The IAP-2000PE is the ideal solution to wireless transmission in any harsh industrial environment.

### IPv6 / IPv4 Web and SNMP Management

The IAP-2000PE supports both **IPv6 and IPv4 web management** functions. Its **SNMP** feature allows the system administrator to remote monitor and control the network devices more efficiently. With the easy and friendly management interface and plenty of management functions included, the IAP-2000PE is the best choice for system Integrators to build the large wireless service and for SMB to connect with the IPv6 network.

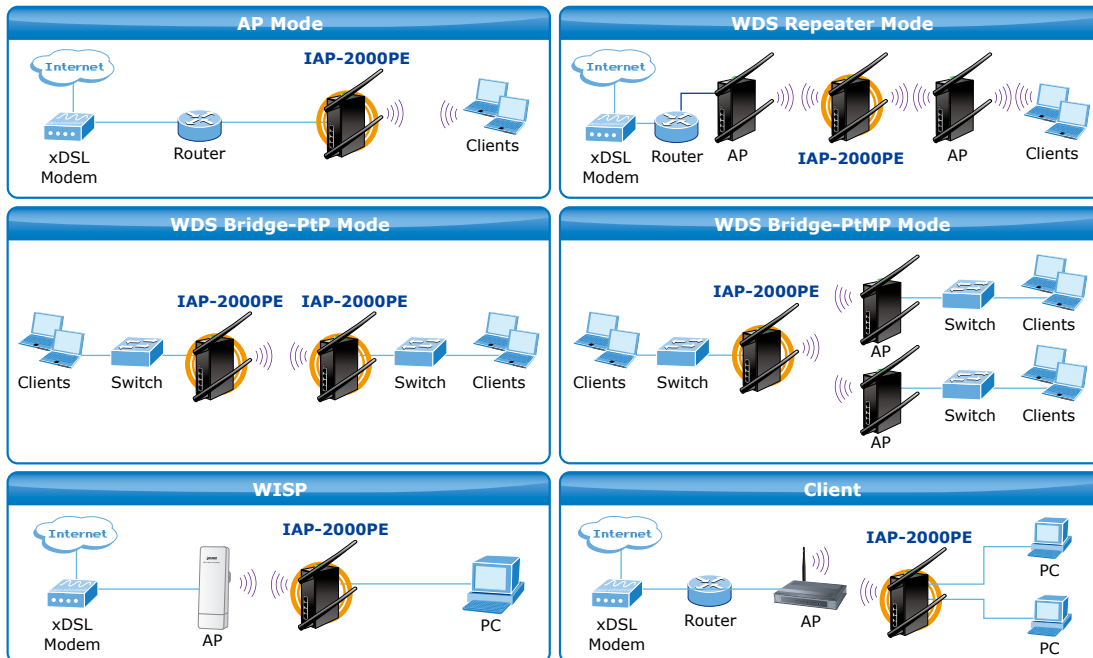
### Steady and Wide Range Wireless Network Communication

The IAP-2000PE features 802.11n radio with 2T2R antenna technology compliant with 802.11b/g/n standards. It is equipped with two external 5dBi High-Gain antennas providing strong signal and excellent performance even in the long range or bad environment. With detachable RP-SMA connector design in the IAP-2000PE, it allows users to manually exchange higher gain antenna for further wireless coverage range.



### Multiple Operation Modes

The IAP-2000PE supports multiple wireless communication connectivity: **Wireless AP, WDS Repeater, WDS Point-to-Point (PtP) and Point-to-Multipoint (PtMP)**, allowing various applications that give users more comprehensive experience. It also helps users to easily build wireless network and extend the wireless range of existed wireless network.



### Wide Range of Wireless Security Support

To secure the wireless communication, the IAP-2000PE supports up-to-date encryption, WPA-PSK / WPA2-PSK with TKIP/AES encryption. In order to simplify the security settings, the IAP-2000PE supports Wi-Fi Protected Setup (WPS) configuration with PBC/PIN type, by just clicking the options and the secure connection between AP and wireless client will be built immediately.

### Easy Installation and Wide Range of Power Usage

The IAP-2000PE is packaged in a strong IP30 case that allows either DIN rail or panel mounting for efficient usage of cabinet space. It provides an integrated power supply with a wide range of voltages for worldwide operations. It also offers dual-redundant, reversible polarity 12V DC to 48V DC power supply inputs for high availability applications requiring dual or backup power inputs.

### Flexible Deployment with PoE Feature

Compliant with IEEE 802.3af Power over Ethernet standard, the IAP-2000PE can be powered and networked by a single UTP cable. It thus reduces the needs of extra cables and dedicated electrical outlets on the wall, ceiling or any other places where are difficult to reach. The wireless AP deployment becomes more flexible and worries free from the power outlet locations.

## KEY FEATURES

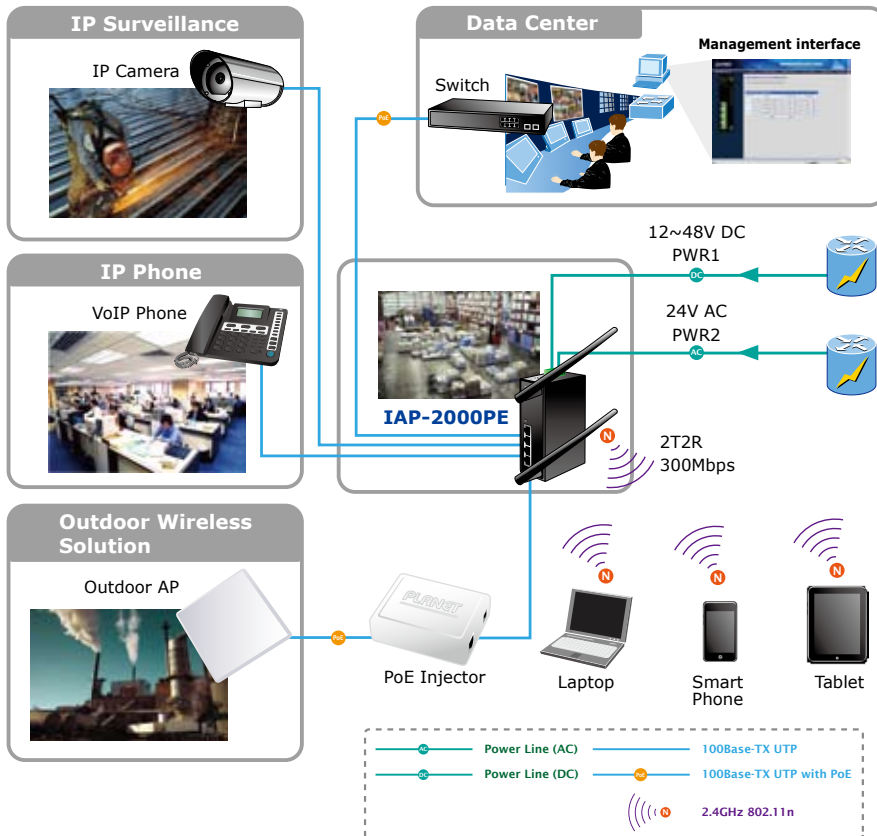
- 4 x 10/100Base-TX Ports with 1-port PoE (PD, Powered Device)
- Complies with IEEE 802.11n Wireless LAN speed up to 300Mbps
- IPv4 / IPv6 Web Management
- 2 x 5dBi Detachable Omni-directional Antenna
- Supports 64/128-bit WEP, WPA / WPA2, and WPA-PSK / WPA2-PSK, 802.1x
- Supports IEEE 802.1Q VLAN
- -10 to 60 Degree C Operating Temperature
- Redundant Power Design
- IP 30 Aluminum case protection / DIN Rail and Wall-mount Design

**APPLICATIONS**

*High Speed Wireless LAN applications in harden environment*

Compliant with IEEE 802.11n and 802.11b/g standard, the IAP-2000PE provides a better wireless signal, higher data rate and performance than standard 802.11g wireless AP. Furthermore, the IAP-2000PE features the latest security and multiple SSID functions to prevent unauthorized access or invasion.

**Manufactory**



**SPECIFICATION**

Product	Industrial 802.11bgn Wireless Access Point (2T2R, PoE PD support)
Model	IAP-2000PE
<b>Hardware Specification</b>	
10/100Base-TX Ports	4 x 10/100Base-TX Auto-Negotiation Auto MDI / MDI-X
IEEE 802.3af PoE Ports	1 x PD (Port-1)
Antenna	2 x Detachable RP-SMA Connector 2 x 5dBi Omni-directional antenna included in the package
Enclosure	IP30 Metal Case
LED Indicators	P1, P2, PWR, FAL, WPS, WLAN, SEC, LAN1~4, PoE
Button	WPS Button Reset Button
Dimension (W x D x H)	87.8 x 135 x 56 mm
Weight	871g
Power Requirement	Power Supply: DC 12-48V / AC 24V Power over Ethernet : IEEE 802.3af PoE, DC 48V
Installation	DIN Rail Kit and Wall Mount Ear
<b>Wireless Interface Specification</b>	
Standard	Compliance with IEEE 802.11b/g/n
Frequency Band	2.4 to 2.4835GHz (Industrial Scientific Medical Band)
Modulation Type	DSS with DBPSK, DQPSK, QPSK and CCK OFDM with BPSK, QPSK, 16-QAM and 64-QAM
Wireless Data Rate	IEEE 802.11b: 1/ 2/ 5.5/ 11Mbps IEEE 802.11g: 6/ 9/ 12/ 18/ 24/ 36/ 48/ 54Mbps IEEE 802.11n: 14/ 29/ 43/ 58/ 87/ 116/ 130/ 144Mbps in 20MHz 30/ 60/ 90/ 120/ 180/ 240/ 270/ 300Mbps in 40MHz
Opt. Channel	America / FCC: 2.414~2.462GHz (11 Channels) Europe / ETSI: 2.412~2.472GHz (13 Channels) Japan / TELEC: 2.412~2.484GHz (14 Channels)
RF Output Power	802.11b: 18 dBm 802.11g: 15 dBm 802.11n: 15 dBm
Receiver Sensitivity	802.11b CCK 1.0Mbps: -94dbm 802.11b CCK 11.0Mbps: -91dbm 802.11g OFDM 6Mbps: -92dbm 802.11g OFDM 54Mbps: -76dbm 802.11n 20MHz MCS7: -72dbm 802.11n 40MHz MCS7: -70dbm
<b>Wireless Management Features</b>	
Wireless Mode	<ul style="list-style-type: none"> <li>■ Access Point</li> <li>■ Bridge mode – WDS PtP, WDS PtMP,</li> <li>■ Repeater mode – AP + WDS</li> <li>■ WISP (Wireless Internet Service Providers)</li> </ul>
Channel Width	20MHz / 40MHz
Data Encryption Security	64 bit / 128 bit WEP WPA / WPA2 WPA-PSK / WPA2-PSK 802.1x Network Access Control
Wireless Security	Wireless MAC address filtering WPS (WIFI Protected Setup) Enable/Disable SSID Broadcast
Wireless Isolation	Enable it to isolate each connected wireless clients but not let them access to each other mutually

Protocol	
Protocol / Feature	Static Routing and RIPv1/2 DMZ and Virtual Server 802.1D 802.1Q VLAN QoS SNTP WMM DHCP Server / Client IGMP Proxy and DNS Proxy UPnP and DDNS SNMP
Internet Connection Type (WISP Mode)	<ul style="list-style-type: none"> <li>■ Static IP</li> <li>■ DHCP (Dynamic IP)</li> <li>■ PPPoE</li> <li>■ PPTP</li> <li>■ L2TP</li> </ul>
Management	IPv4 / IPv6 Web-Based configuration
Standards Conformance	
Standards Compliance	IEEE 802.11b/g and 802.11n Wireless LAN IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3x Full-Duplex Flow Control IEEE 802.3af Power over Ethernet IEEE 802.1Q VLAN
Environment Specification	
Temperature / Humidity	Operating: -10~60 Degree C, 5~ 90% (non-condensing), Storage: -20~70 Degree C, 0~95% (non-condensing)
Emission	FCC, CE
Stability Testing	IEC60068-2-32 (Free Fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)

## ORDERING INFORMATION

<b>IAP-2000PE</b>	Industrial 802.11bgn Wireless Access Point (2T2R, PoE PD support)
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## RELATED PRODUCTS – 802.11N WIRELESS CLIENT

<b>WNL-U554</b>	802.11n Wireless USB Adapter
<b>WNL-U554A</b>	802.11n Wireless USB Adapter
<b>WNL-U554M</b>	802.11n Micro Wireless USB Adapter
<b>WNL-9501</b>	802.11n Wireless PCI Express Adapter

\* For best performance and wireless connection, sincerely advice to match the above related products.

## RELATED PRODUCTS – POE POWER SOURCE EQUIPMENT

<b>POE-151</b>	IEEE 802.3af Power Over Ethernet Injector (Mid-Span)
<b>POE-400</b>	4-Port IEEE 802.3af Power Over Ethernet Injector Hub
<b>FSD-808P</b>	8-Port 10/100Mbps PoE Fast Ethernet Switch
<b>FGSD-1022P</b>	8-Port 10/100Mbps + 2G TP/SFP Combo PoE Managed Switch
<b>ISW-1022MT</b>	Industrial 8-Port 10/100Mbps + 2G TP/SFP Combo PoE Managed Switch with Wide Operating Temperature
<b>ISW-504PT</b>	5-Port 10/100Mbps with 4-Port PoE Industrial Ethernet Switch - Wide Temperature
<b>ISW-514PT</b>	4-Port 10/100Mbps with PoE + 1-Port 100FX Industrial Ethernet Switch – Wide Temperature
<b>IVC-2004PT</b>	4-Port 10/100Base-TX with PoE + 1-Port BNC / RJ-11 Industrial Ethernet Extender