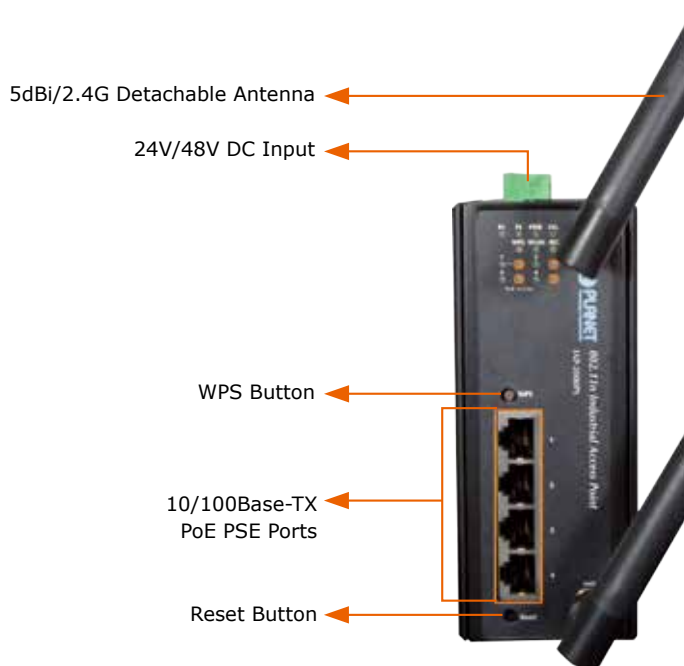# Industrial 802.11n Wireless Access Point

- 4 10/100Base-TX Ports with PoE (Power over Ethernet)
- 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 WISP Mode, IEEE 802.1Q VLAN
- -10 to 60 degrees C operating temperature
- Redundant power input design
- IP30 aluminum case protection
- DIN rail and wall-mount design

Industrial Wireless LAN

For robust wireless access, PLANET IAP-2000PS Industrial Access Point with PoE injector function is specially designed for the Wi-Fi applications over a TCP/IP network in the hardened environment. The IAP-2000PS comes with 802.11n wireless interface to provide up to 300Mbps performance and with the 4-port IEEE 802.3af PoE injector interface to offer flexible power supply service. The IAP-2000PS is rated to operate at the temperature ranging from -10 to 60 degrees C and is the ideal solution to wireless transmission in any harsh industrial environment.

5dBi/2.4G Detachable Antenna

24V/48V DC Input

WPS Button

10/100Base-TX PoE PSE Ports

Reset Button

IPv6 / IPv4 Web and SNMP Management

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

Multiple Wireless Network Technologies for Greater Access

The IAP-2000PS features 802.11n radio with 2T2R antenna technology compliant with 802.11b/g standards. Compared with general wireless access points, the IAP-2000PS offers more powerful and flexible capability for LAN clients to access the network with management functions.
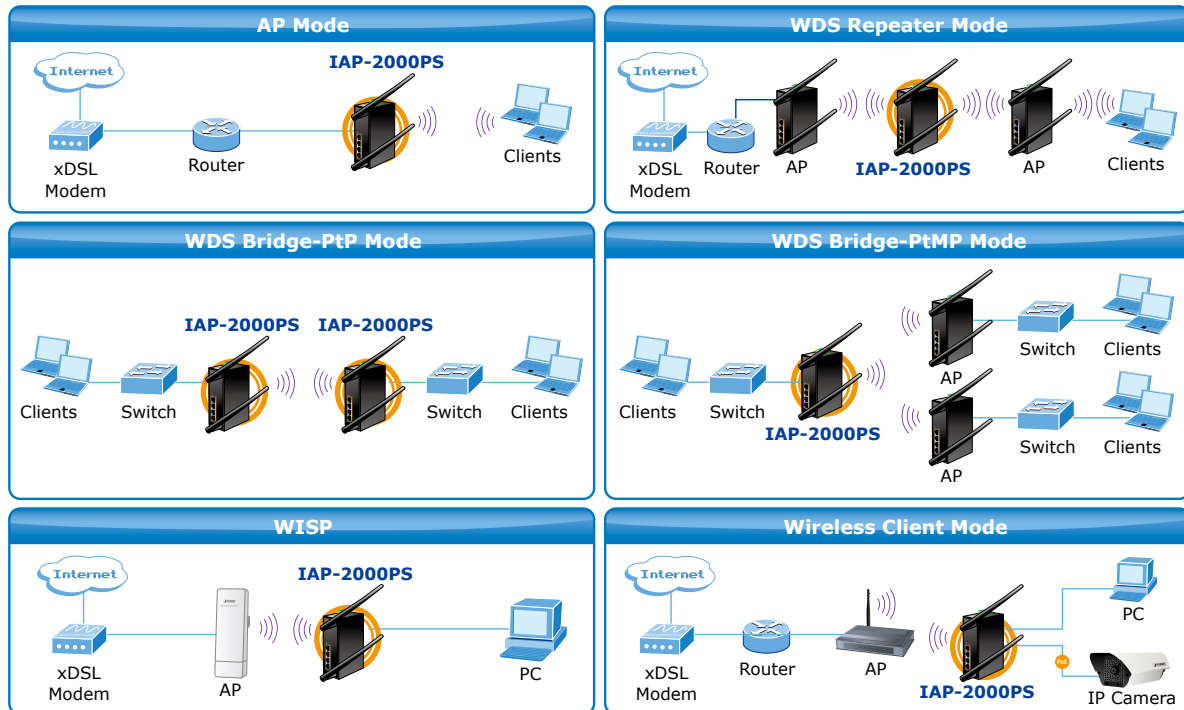
Wide Range of Wireless Security Support

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

IEEE 802.3af Power over Ethernet Industrial Switch

PoE feature is supported in the industrial Ethernet devices more and more often for efficient operation in harsh environments. The IAP-2000PS in-line power follows IEEE 802.3af standard and able to give power to 4 PoE compliant devices at the distance up to 100 meters through the 4-pair Cat 5 / 5e UTP wire. With data and power over Ethernet from one unit, the IAP-2000PS will reduce cable deployment and eliminates the need for dedicated electrical outlets on the wall, ceiling or any unreachable place. A wire carries both data and power will lower the installation costs and simplifies the installation effort. Furthermore, there is only 24V DC input in some industrial environments, the IAP-2000PS supports 24V DC, 48V DC and 24V AC voltages input and able to provide more wide range of industrial IEEE 802.3af PoE applications.
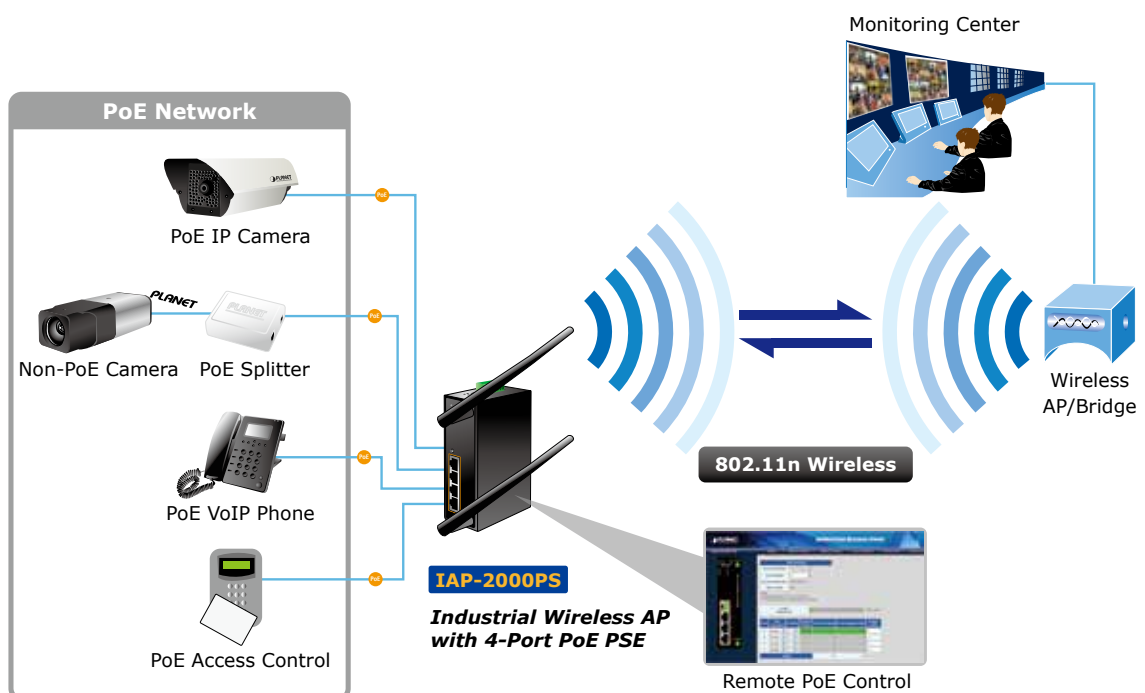
Easy Installation and Wide Range of Power Usage

The IAP-2000PS 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 24V or 48V DC power supply inputs for high availability applications requiring dual or backup power inputs.

2

Applications

High-speed Wireless LAN in hardened environment

Compliant with IEEE 802.11n and 802.11b/g standard, the IAP-2000PS provides stronger wireless signal, higher data rate and better performance than normal 802.11g wireless AP. Furthermore, the IAP-2000PS can act as a power supply equipment to other network devices and features the latest wireless encryption type and multiple SSID functions to prevent unauthorized access or invasion.
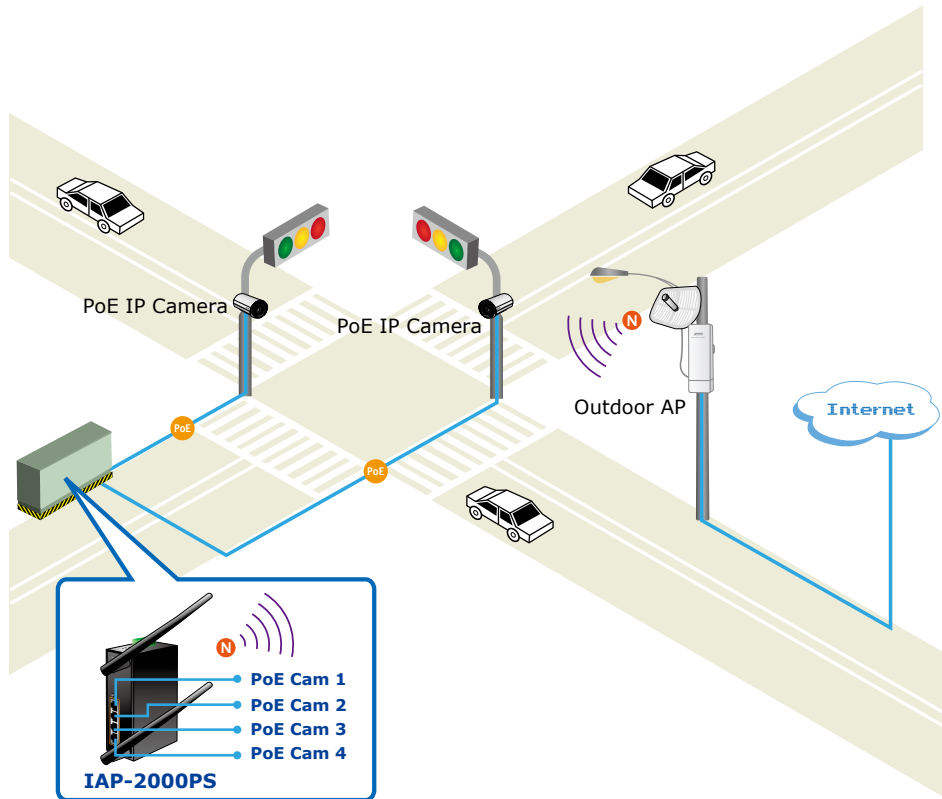
Specifications

Model	IAP-2000PS
Hardware Specifications	
10/100Base-TX Ports	4 x 10/100Base-TX auto-negotiation Auto MDI / MDI-X
IEEE 802.3af PoE Ports	4 x PSE (Port 1-4)
Antenna	2 x Detachable RP-SMA connector 2 x 5dBi SMA 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
Dimensions (W x D x H)	135 x 87.8 x 56 mm
Weight	871g
Power Requirements	DC 24V / 48V , AC 24V
Installation	DIN rail kit and wall-mount ear
Wireless Interface Specifications	
Standard	Compliant 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: 14/29/43/58/87/116/130/144Mps in 20MHz 30/60/90/120/180/240/270/300Mbps in 40MHz
Optional 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	IEEE 802.11b: 18 dBm IEEE 802.11g: 15 dBm IEEE 802.11n: 15 dBm
Receiver Sensitivity	IEEE 802.11b CCK 1.0Mbps: -94dbm 　　　　　11b CCK 11.0Mbps: -91dbm IEEE 802.11g OFDM 6Mbps: -92dbm 　　　　　11g OFDM 54Mbps: -76dbm IEEE 802.11n 20MHz MCS7: -72dbm 　　　　　11n 40MHz MCS7: -70dbm
Wireless Management Features	
Wireless Mode	Access point
Channel Width	20MHz / 40MHz
Data Encryption Security	64 bit / 128 bit WEP WPA / WPA2 WPA-PSK / WPA2 / WPA2-PSK IEEE 802.1x network access control
Management	Web-based configuration
Wireless Isolation	Yes
Power over Ethernet	
PoE Standard	IEEE 802.3af power over Ethernet / PSE
PoE Power Supply Type	End-Span
PoE Power Output	Per port 48V DC, 350mA. max. 15.4 watts
Power Pin Assignment	1/2(+), 3/6(-)

Protocol	
Protocol / Feature	Bridge and WISP mode WDS and WPS Static Routing and RIPv1/2 DMZ and Virtual Server IEEE 802.1D IEEE 802.1Q VLAN QoS SNTP WMM DHCP Server / Client IGMP Proxy and DNS Proxy UPnP and DDNS SNMP
Management	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 Specifications	
Temperature / Humidity	Operating: -10~60 degrees C, 5~ 90% (non-condensing) Storage: -20~70 degrees 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

IAP-2000PS	Industrial 802.11n Wireless Access Point (2T2R, 4 PoE Ports)

Related Products

IAP-2000PE	Industrial 802.11n Wireless Access Point
POE-151S	IEEE 802.3af Power Over Ethernet Splitter
POE-E101	IEEE 802.3af Power over Ethernet Extender
WNAP-C3220	300Mbps 802.11n Wireless Ceiling Mount Range Extender
WNL-9501	802.11n Wireless PCI Express Adapter
WNL-U554A	802.11n Wireless USB Adapter
ICA-1200	Full HD PoE Cube IP Camera
ICA-2200	Full HD PoE Box IP Camera
ICA-4200V	Full HD 20M IR Vari-focal Dome IP Camera
ICA-HM101	2 Mega-pixel PoE Cube IP Camera
ICA-HM316	2 Mega-pixel Outdoor IR PoE IP Camera
ICA-HM351	2 Mega-pixel 35M IR Outdoor Box PoE IP Camera
VIP-256PT	802.3af PoE SIP IP Phone
VIP-2020PT	Enterprise HD PoE IP Phone (2-Line)

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IAP-2000PS