IWP-1000

Industrial 802.11 a/b/g Redundant Access Point

- *Dual Radio for 802.11a or 802.11b/g*
- *Supports AP / Bridge / Repeater / AP-Client Mode*
- *Supports X-Roaming < 100ms*
- *IP30 housing for industrial environment*
- *Provides 1 PoE P.D. port with 1KV isolation*

OVERVIEW

Lantech IWP-1000 is a reliable 802.11a/b/g WLAN with 2 ports LAN Access Point. It can be configured to operate in AP/Bridge/Repeater/AP-Client mode. Users are able to configure IWP-1000 by WEB interface via LAN port or WLAN interface. IWP-1000 provides dual Ethernet ports in switch mode, so that users can use Daisy Chain to reduce the usage of Ethernet switch ports.

With IEEE802.11a/b/g dual mode capability, IWP-1000 is able to operate with a maximum link speed of 54Mbps to maximize the capacity of communication channel. The security standards include WEP, WPA, WPA-PSK (TKIP, AES), WPA2, WPA2-PSK (TKIP, AES), 802.1X and Radius. These various kinds of security standards for WLAN are also configurable to ensure the security of data transmission.

Lantech IWP-1000 supports HTTPs protocol over LAN or WLAN to assure the data security when users make configuration remotely. IWP-1000 also support switch mode. Users are able to use the Daisy Chain to reduce usage of Ethernet switch port. The redundant DC power inputs help to guarantee a non-stop operation. The backup power input will take over immediately when the primary DC power input fails.

IPW-1000 also provides P.D. feature on ETH2 which is fully compliant with IEEE802.3af PoE P.D. specification.

FEATURES & BENEFITS

- **High Speed Air Connectivity: WLAN interface support up to 54Mbps link speed**
- **Highly Security Capability: WEP/ WPA/ WPA-PSK (TKIP,AES)/ WPA2/ WPA2-PSK (TKIP,AES)/ 802.1X Authentication supported**
- **Support X-Roaming < 100 ms**
- **Support wireless load balance**
- **Support AP/Bridge/Repeater/AP-Client Mode**
- **Switch Mode Supported: Daisy Chain support to reduce usage of switch ports**
- **Dual redundant Ethernet port support redundant mode (Recovery time < 10ms)**
- **Secured Management by HTTPs**
- **Wireless connecting status monitoring**
- **Event Warning by Syslog, Email, SNMP Trap, Relay and Beeper**
- **1KV isolation for PoE P.D. port**
- **Rigid IP30 housing for industrial environment**
- **DIN-Rail and Wall-mount enabled**

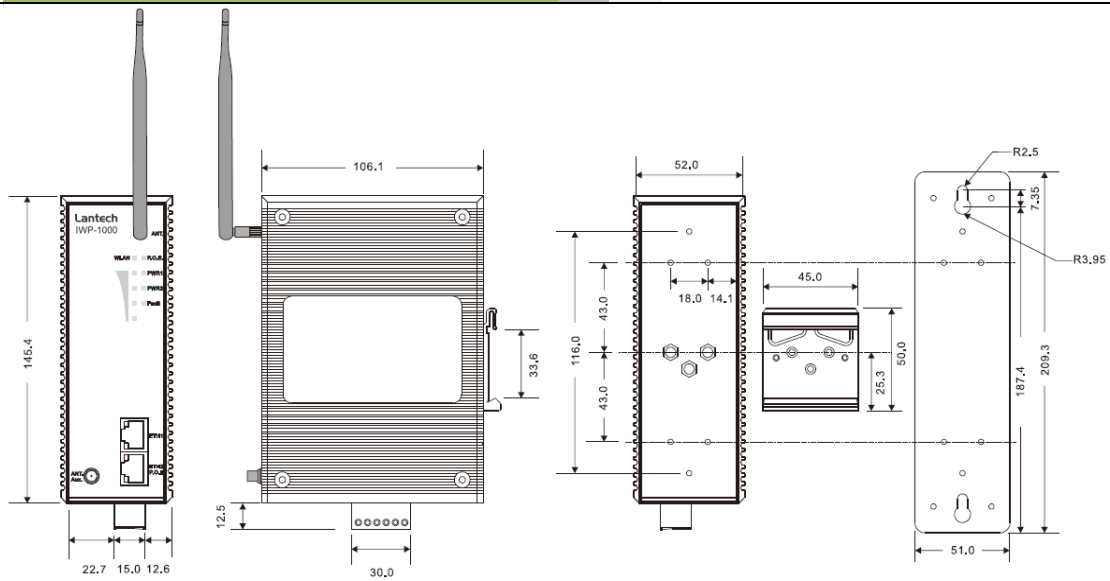
SPECIFICATION

Physical Ports	
10/100 Base-T(X) Ports in RJ45 Auto MDI/MDIX	2
PoE P.D. Port	Present at ETH2 Fully compliant with IEEE 802.3af Power Device specification Over load & short circuit protection Isolation Voltage: 1000 VDC min. Isolation Resistance : 10^8 ohms min
WLAN Interface	
Operating Mode	AP/Bridge/Repeater/AP-Client
Antenna Connector	Reverse SMA
Radio Frequency Type	DSSS
Modulation	**IEEE802.11a:** OFDM with BPSK, QPSK, 16QAM, 64QAM **IEEE802.11b:** CCK, DQPSK, DBPSK **IEEE802.11g:** OFDM with BPSK, QPSK, 16QAM, 64QAM
Frequency Band	**America / FCC:** 2.412~2.462 GHz (11 channels) 5.15 to 5.825 GHz (13 channels) **Europe CE / ETSI:** 2.412~2.472 Ghz (13 channels) 5.15 to 5.724 GHz (19 channels)
Transmission Rate	IEEE802.11b: 1 / 2 / 5.5 / 11 Mbps IEEE802.11a/g: 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54 Mbps
Transmit Power	IEEE802.11a/b/g: 20dBm max.
Receiver Sensitivity	-81dBm @ 11Mbps, PER< 8%; -64dBm @ 54Mbps, PER< 10%
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
Protocol Support	
Protocol	ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TCP, UDP, RADIUS, SNMP, STP (IEEE 802.1D)
LED Indicators	
Power indicator	PWR 1(2)(PoE) / Ready: Red On: Power is on and booting up. Green On: Power is on and functioning Normally.
10/100Base-T(X) RJ45 port indicator	Green for port Link/Act at 100Mbps. Amber for port Link/Act at 10Mbps.
WLAN LEDs	WLAN Link /ACT: Green: Link, Orange: Poor signal Green for WLAN Strength: 1<25%, 2<50%, 3<75%, 4<100%
Fault	Red: Ethernet link down or power down
Fault contact	
Relay	Relay output to carry capacity of 1A at 24VDC
Power	
Redundant Input power	Dual DC inputs. 12~48VDC on 6-pin terminal block
Power consumption (Typ.)	6 Watts

Overload current protection	Present
Reverse polarity protection	Present on terminal block
Physical Characteristic	
Enclosure	IP-30
Dimension	54.1(W) x 106.1(D) x 145.4(H) mm
Weight	804g
Environmental	
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Operating Temperature	-10°C ~ 55°C (14°F ~ 131°F)
Operating Humidity	5% to 95% Non-condensing
Regulatory approvals	
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
Safety	EN60950-1
Warranty	5 years

DIMENSIONS (unit=mm)



ORDERING INFOMATION

- **IWP-1000…..……..…….....P/N: 8810-555**
  Industrial 802.11 a/b/g PoE Redundant Access Point
- **IWP-1000…..……..…….....P/N: 8810-557**
  Industrial 802.11 a/b/g Redundant Access Point

OPTIONAL ACCESSORIES

DIN Rail Power

AD1048-24FS	24VDC, 2A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 75°C, which means the output is 18 Watts at 75°C.)
AD1024-24F	24VDC, 1A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 75°C, which means the output is 9 Watts at 75°C.)
AD1240-48S	48VDC, 5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
AD1120-48F	48VDC, 2.5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

Lantech Communications Global Inc.

www.lantechcom.tw
info@lantechcom.tw