

IWP-1000b/g

Industrial 802.11 b/g Redundant Access Point

- Dual Radio for 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-1000b/g is a reliable 802.11b/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-1000b/g by WEB interface via LAN port or WLAN interface. IWP-1000b/g provides dual Ethernet ports in switch mode, so that users can use Daisy Chain to reduce the usage of Ethernet switch ports.

With IEEE802.11b/g dual mode capability, IWP-1000b/g 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-1000b/g supports HTTPs protocol over LAN or WLAN to assure the data security when users make configuration remotely. IWP-1000b/g 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.

IWP-1000b/g 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**
- **Event Warning by Syslog, Email, SNMP Trap, Relay and Beeper**
- **Rigid IP30 housing for industrial environment**
- **DIN-Rail and Wall-mount enabled**

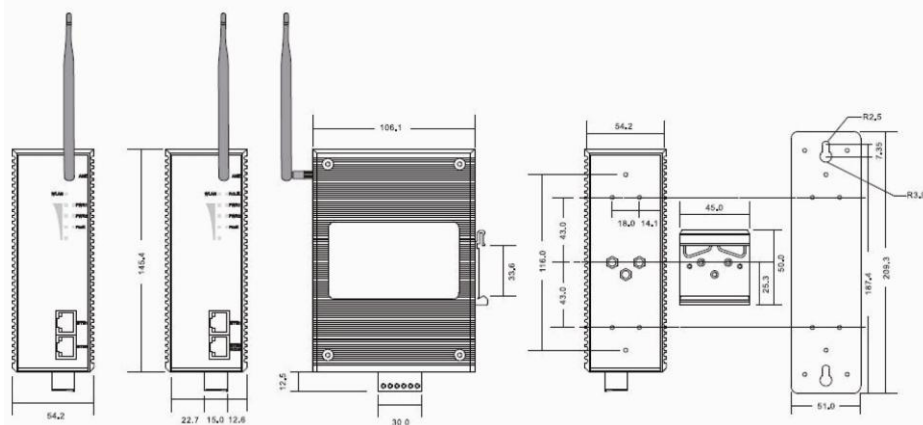
SPECIFICATION

Physical Ports		IEEE802.11g:	
10/100 Base-T(X) Ports in RJ45	2	Frequency Band	OFDM with BPSK, QPSK, 16QAM, 64QAM
Auto MDI/MDIX			America / FCC: 2.412~2.462 GHz (11 channels)
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 ⁹ ohms min		Europe CE / ETSI: 2.412~2.472 Ghz (13 channels)
WLAN Interface		Transmission Rate	IEEE802.11b: 1 / 2 / 5.5 / 11 Mbps IEEE802.11g: 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54 Mbps
Operating Mode	AP/Bridge/Repeater/AP-Client	Transmit Power	IEEE802.11 b/g: 20dBm max.
Antenna Connector	2dBi antenna on reverse SMA connector	Receiver Sensitivity	-81dBm @ 11Mbps, PER< 8%; -64dBm @ 54Mbps, PER< 10%
Radio Frequency Type	DSSS, OFDM	Encryption Security	WEP : (64-bit ,128-bit key supported) WPA /WPA2 : IEEE802.11i(WEP and AES encryption) WPA-PSK (256-bit key pre-shared key supported) 802.1X Authentication supported TKIP encryption
Modulation	IEEE802.11b: CCK, DQPSK, DBPSK	Wireless Security	SSID broadcast disable

Datasheet Version 1.0

Protocol Support		Physical Characteristic	
Protocol	ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TCP, UDP, RADIUS, SNMP, STP (IEEE 802.1D)	Enclosure	IP-30
LED Indicators		Dimension	54.2(W) x 106.1(D) x 145.4(H) mm
Power indicator	PWR 1(2)(PoE) / Ready: Red On: Power is on and booting up. Green On: Power is on and functioning Normally.	Weight	804g
10/100Base-T(X) RJ45 port indicator	Green for port Link/Act at 100Mbps. Amber for port Link/Act at 10Mbps.	Environmental	
WLAN LEDs	WLAN Link /ACT : Green Green LED(s) for WLAN Strength : 1<25%, 2<50%, 3<75%, 4<100%	Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Fault	Red: Ethernet link down or power down	Operating Temperature	-10°C ~ 55°C (14°F ~ 131°F)
Fault contact		Operating Humidity	5% to 95% Non-condensing
Relay	Relay output to carry capacity of 1A at 24VDC	Regulatory approvals	
Power		EMI	FCC Part 15, CISPR (EN55022) class A
Redundant Input power	Triple DC inputs, 48VDC from PoE and Dual 12-48VDC on 6-pin terminal block	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
Power consumption (Typ.)	6 Watts	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
Overload current protection	Present	Safety	EN60950-1
Reverse polarity protection	Present on terminal block	MTBF	352,594
		Warranty	5 years

DIMENSIONS (unit=mm)



ORDERING INFORMATION

- **IWP-1000b/g.....P/N: 8810-558**
Industrial 802.11 b/g PoE Redundant Access Point
- **IWP-1000b/g.....P/N: 8810-559**
Industrial 802.11 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

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