

3ISYS-WAP-2C2A/WAP-2C2A+

**INDUSTRIAL IEEE 802.11 B/G/N WIRELESS ACCESS POINT
WITH 2X10/100/1000BASE-T(X)**

FEATURES

- High Speed Air Connectivity: WLAN interface support up to 300Mbps link speed
- Highly Security Capability: WEP/WPA/WPA-PSK(TKIP,AES)/WPA2/WPA2-PSK(TKIP,AES)/802.1X Authentication supported
- Support X-Roaming < 60 ms
- Support wireless load balance
- Support MAC Filter
- Support Long Distance Air Connectivity
- Provide Digital Input and Digital Output
- 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)
- Wireless connecting status monitoring
- Secured Management by HTTPS
- Event Warning by Syslog, Email, SNMP Trap, Relay and Beeper
- Rigid IP-30 housing design
- DIN-Rail and Wall-mount enabled



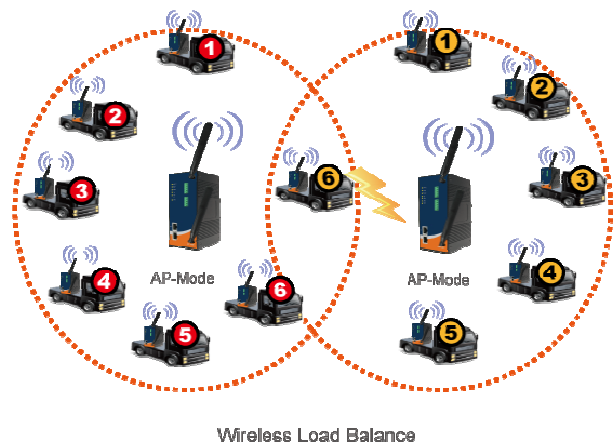
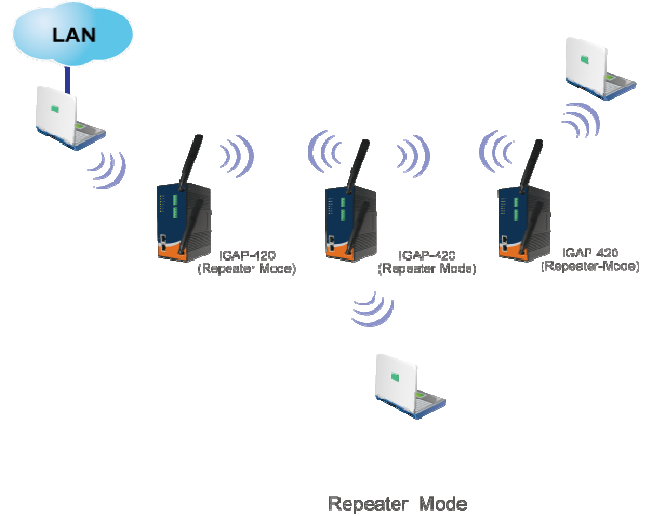
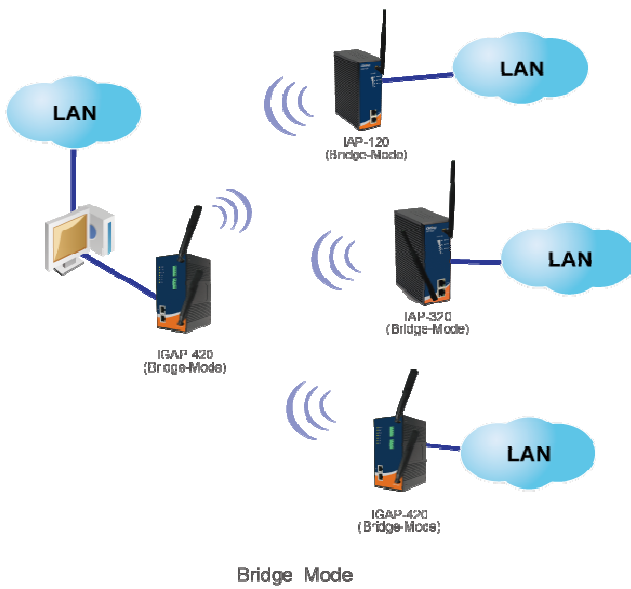
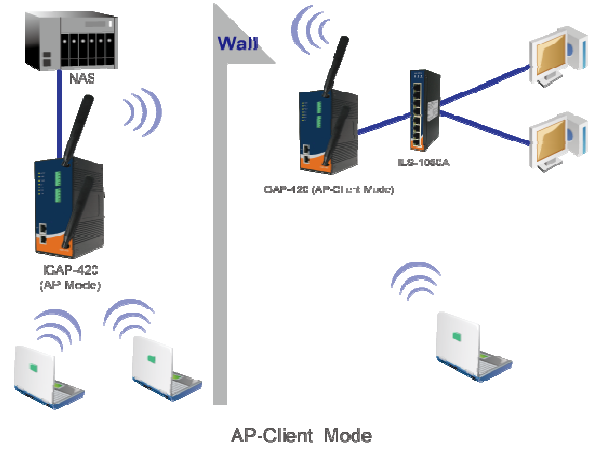
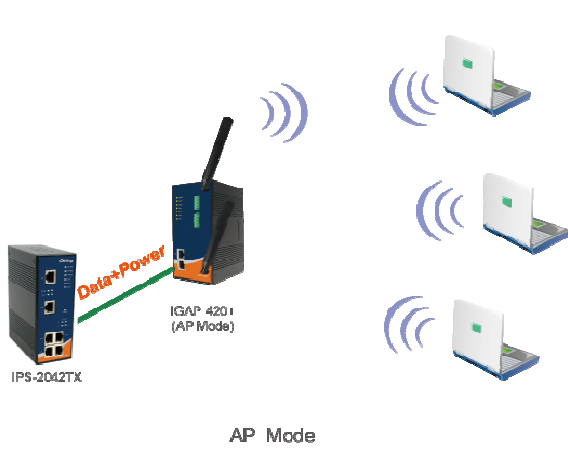
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PRODUCT OVERVIEW

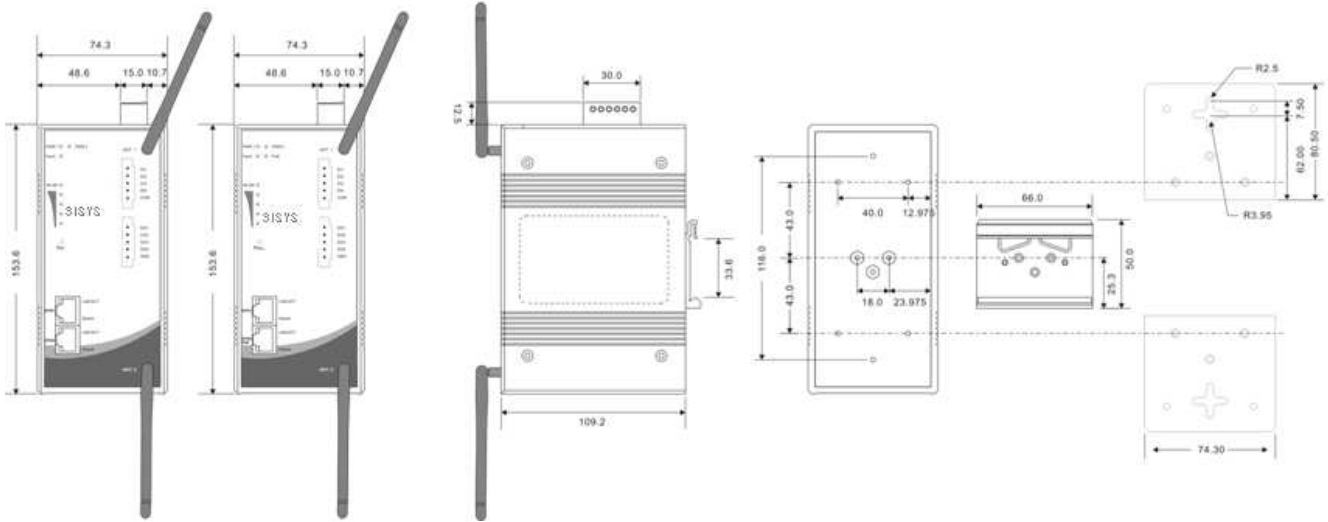
3ISYS-WAP-2C2A/WAP-2C2A+ series is a reliable WLAN Access Point with 2 Ethernet Gigabit ports and IEEE 802.11 b/g/n wireless module. It can be configured to operate in AP/Bridge/Repeater/AP-Client mode. You are able to configure 3ISYS-WAP-2C2A/WAP-2C2A+ by WEB interface via LAN port or WLAN interface. 3ISYS-WAP-2C2A series provides dual Ethernet ports in switch mode, so that you can use Daisy Chain to reduce the usage of Ethernet switch ports. In addition, 3ISYS-WAP-2C2A+ also provides P.D. feature on ETH2 port which is fully compliant with IEEE802.3af PoE P.D. specification. Therefore, 3ISYS-WAP-2C2A series is one of the best communication solutions for wireless applications on the industrial network.

Practical Operation

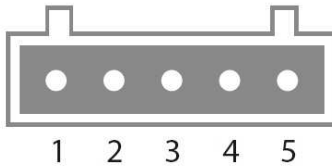
In practical operation of wireless access point, Windows utility (Open-Vision) is supported. This utility is very helpful for you to search and configure IP of access point on the industrial network. In addition, the wireless access point support various kinds of operation modes include AP/ Bridge/Repeater/AP-Client mode. You can build up the wireless network easily



Dimension



ID/DO DEFINITION:



Digital Input Pin Definition

| PIN | 1 | 2 | 3 | 4 | 5 |
|----------|-----|-----|-----|-----|-----|
| Function | DI1 | DI2 | DI3 | DI4 | COM |

Digital Output Pin Definition

| PIN | 1 | 2 | 3 | 4 | 5 |
|----------|-----|-----|-----|-----|-----|
| Function | DO1 | DO2 | DO3 | DO4 | GND |

Specification

| 3ISYS WLAN Access Point Model | 3ISYS-WAP-2C2A | 3ISYS-WAP-2C2A+ |
|--|---------------------|--|
| Physical Ports | | |
| 10/100/1000 Base-T(X) Ports in RJ45 Auto MDI/MDIX | 2 | |
| 5-Pin Terminal Block | 4(DI and DO) | |
| Antenna Connector | 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 Female | |
| Modulation | IEEE802.11b: CCK/DQPSK/DBPSK IEEE802.11g: OFDM IEEE802.11n: BPSK, QPSK, 16-QAM, 64-QAM | |
| Frequency Band | America/FCC: 2.412~2.462 GHz (11 channels) Europe CE/ETSI: 2.412~2.472 GHz (13 channels) | |
| Transmission Rate | 802.11b: 11, 5.5, 2, 1 Mbps; 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11n: 20 MHz BW: 130, 117, 104, 78, 52, 39, 26, 13 40 MHz BW: 270, 243, 216, 162, 108, 81, 54, 27 | |
| Transmit Power | 802.11b: 16dBm ± 1.5dBm@11Mbps 802.11g: 11dBm ± 1.5dBm@54Mbps 802.11gn HT20: 12dBm ± 1.5dBm @MCS7 802.11gn HT40: 11dBm ± 1.5dBm @MCS7 | |
| Receiver Sensitivity | 802.11b : -83dBm ± 2dBm@11Mbps 802.11g : -70dBm ± 2dBm@54Mbps 802.11gn HT20:-61dBm ± 2dBm@MCS7 802.11gn HT40:-65dBm ± 2dBm@MCS7 | |
| Encryption Security | WEP: (64-bit ,128-bit key) WPA/WPA2 PSK :TKIP and AES encryption (802.11i) 802.1X/RADIUS Authentication supported | |
| Wireless Security | SSID broadcast disable and enable | |
| Protocol Support | | |
| Protocol | ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNMP, TCP, UDP, RADIUS, SNMP, STP (IEEE 802.1D) | |
| LED Indicators | | |
| Power Indicator | 3 x LEDs, PWR1(2)(PoE) / Ready: Red On : Power is on and booting up Green On : Power is on and functioning Normal | |
| 10/100/1000Base-T(X) RJ45 Port Indicator | 2 x LEDs, Green for port Link/ Act at 1000Mbps Amber for port Link/ Act at 100Mbps. | |
| WLAN LED | 1 x LED, Green for WLAN Link/ Act | |
| Fault | 1 x LED, Red for Ethernet link down or power down indicator | |
| 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.) | 7.5W | 8.5W |
| Overload Current Protection | Present | |
| Reverse Polarity Protection | Present on terminal block | |
| Physical Characteristic | | |
| Enclosure | IP-30 | |
| Dimension (W x D x H) | 196(W) x 125(D) x 62.9(H) mm (7.72 x 4.92 x 2.48 inch.) | |
| Weight (g) | 1150 | 1155 |
| Environmental | | |
| Storage Temperature | -40 to 85°C (-40 to 185°F) | |
| Operating Temperature | -10 to 60°C (14 to 140°F) | |
| Operating Humidity | 5% to 95% Non-condensing | |
| Regulatory Approvals | | |
| EMI | FCC Part 15, CISPR (EN55022) class A | |
| 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 | |

| | |
|-----------------|---------------|
| Shock | IEC60068-2-27 |
| Free Fall | IEC60068-2-32 |
| Vibration | IEC60068-2-6 |
| Safety | EN60950-1 |
| Warranty | 1 year |

Ordering Information

3ISYS-AAA-C-A

| Module Identifier | Wireless protocols | Number of 10/100/1000 Base-T(X) Ports | No of Antenna Connectors |
|--------------------------|--|---------------------------------------|--------------------------|
| WAP WLAN Access point | <ul style="list-style-type: none"> - 1: 802.11 b/g - 2: 802.11 a - 3: 802.11 a/b/g - 4: 802.11 b/g/n - 5: 802.11 a/n - 6: 802.11 a/b/g/n | 2 | 2 |

Accessories Included

3ISYS-WAP-2C2A/WAP-2C2A+x 1

Antenna x 2

6-Pin Terminal Block x 1

CD x 1

Din-Rail Kit x 1

5-Pin Terminal Block x 2

Quick Installation Guide x 1

Wall-Mount Kit x 2

Dust Cover x 2

Optional Accessories

3ISYS-PWR -45 series : 45 Watts power supply

3ISYS-PWR -120 series : 120 Watts power supply

3ISYS-PWR -75 series : 75 Watts power supply

WLAN RF Antenna (Omni-directional) series
RF Cable series



CONTACT DETAILS

#F-2, No. 12, Alley 112
Lane 12 Wen Hu Street Taipei, Taiwan
Ph: +886920221793

Office 508, The Fairmont
Shiekh Zayed Road, UAE
Ph: +97143116732

P.O. Box 74, P.C 102 CB 49
Al-Khuwair-233, Muscat
Ph: +96824488412

www.3isysnetworks.com

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All specifications are subject to change without further notice. All features with * mark will be available by firmware upgrade.