



## FEATURE HIGHLIGHTS

- Designed for 802.11 b/g/n networks
- Web server/Utility configuration
- Upgrade via Device View or Web server
- Client isolation
- Different operating modes and topology options (WDS Bridge and AP Client)
- FCC (United States), ETSI (Europe) certified wireless equipment
- Support WPS(Wi-Fi protected setup)
- Support Wi-Fi Direct (Peer-to-Peer)

## PRODUCT DESCRIPTION

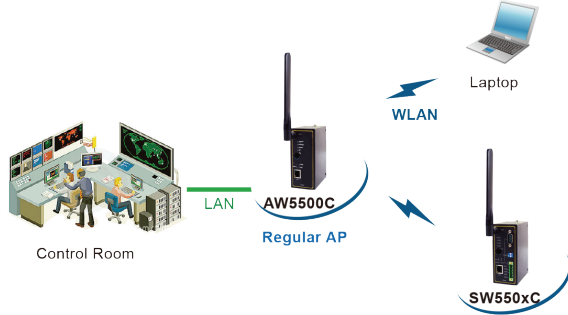
Suitable in a wide array of applications, the new AW5500C is able to withstand harsh conditions typically found in the industry. AW5500C is also designed thinking on your security, state of the art encryption as well as having the ability to create a virtual network among wireless clients; this level of communication between clients can be easily and intuitively controlled using this option, Imposing restrictions on data and excluding malware at the same time.

AW5500C embodies a strong wireless network manager that will surely deliver optimum performance in your network.

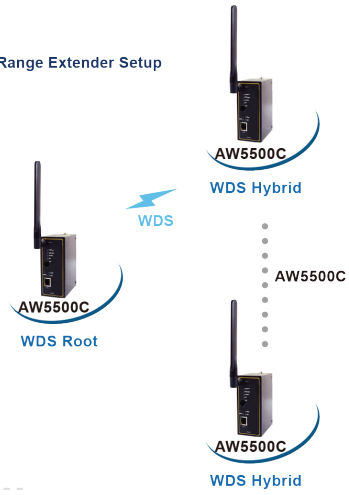
AW5500C supports "WPS & Wi-Fi Direct" technology that makes Wi-Fi usage to be an ease-of-use connectivity, and delivers an industry-wide peer-to-peer solution based on broadly deployed Wi-Fi technologies.

# Application

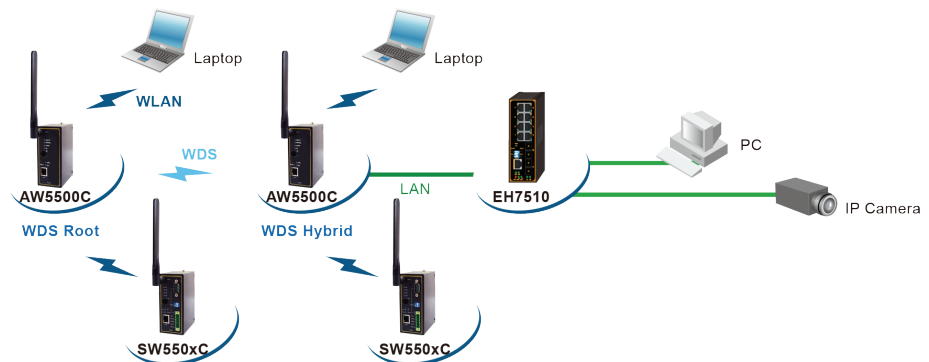
Basic Access Point Setup



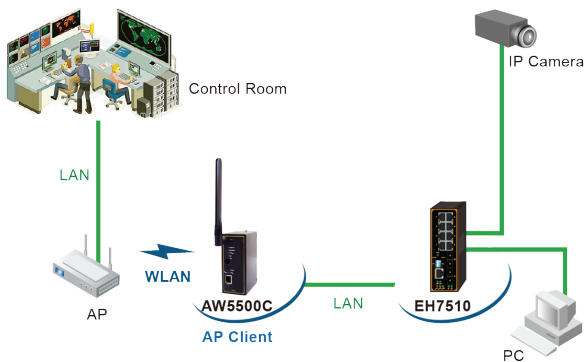
Coverage Range Extender Setup



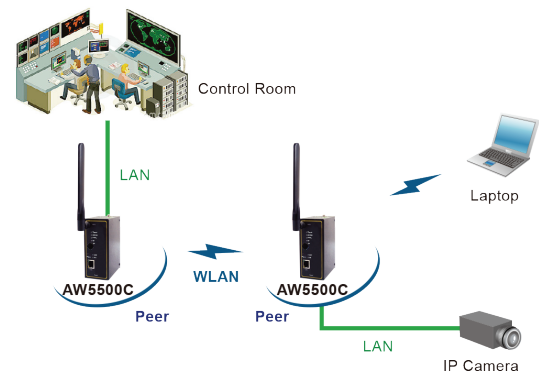
Basic WDS Setup



AP Client Setup



WPS / Wi-Fi Direct Mode



## SPECIFICATIONS

| Technical Specifications    |  |
|-----------------------------|--|
| Model Name                  | AW5500C  |
| Network Interface           |  |
| Connector                   | RJ-45  |
| Speed                       | IEEE802.3u, 100 Base-T(X)  |
| Power Characteristics       |  |
| Input Voltage               | 9VDC - 48VDC   |
| Input Current(9VDC)         | 0.65A  |
| Power Consumption           | Approx. 5.85W (max)  |
| Reverse Polarity Protection | Yes  |
| Connector                   | 5.08mm 3-pin Lockable Terminal Block   |
| Mechanicals                 |  |
| Protection Rating           | IP30   |
| Dimensions(W X H x D)       | 47 X 110 X 90 mm   |
| Weight                      | 500g   |
| Installation                | DIN-Rail, wall mount (optional kit)  |
| Reset Button                | Yes  |
| WPS / Wi-Fi Direct Button   | Yes  |
| Environmental Limits        |  |
| Operating Temperature       | -10°C ~ 60°C (14°F ~ 140°F)  |
| Storage Temperature         | -40°C ~ 85°C (-40°F ~ 185°F)   |
| Ambient Relative Humidity   | 5 ~ 95% RH, (non-condensing)   |
| Software Features           |  |
| Operation Modes             | AP, WDS Bridge, AP Client  |
| Wireless Security           | WEP, WPA, WPA2, TKIP, AES, 802.1x  |
| Network Security            | Client Isolation, Firewall / Filtering, Turn off Radio   |
| Alerts Event                | E-mail / SNMP Trap   |
| Supported Protocols         | ICMP, TCP, UDP, DHCP Server/Client, DNS, SNMP, NTP, SMTP, HTTP, IPv4, 802.1x, RADIUS, STP, WPS, Syslog |
| Regulatory Requirements     |  |
| EMC                         | EN55032, EN55024, EN 301489-1 V2.2.0; EN301489-17 V3.2.0; FCC 15B (Class A), CNS 13438                 |
| Radio                       | FCC 15C 15.247, FCC 15E 15.407, EN 301893 V2.1.1, EN 300328 V2.1.1, NCC LP00002                        |
| EMF                         | EN 62311: 2008, EN 50385: 2002   |

| Test                            | Description   | Test Levels  | Levels      |
|---------------------------------|---|--|-------------|
| IEC 61000-4-2                   | ESD<br>Contact Discharge<br>Air Discharge   | ±8KV<br>±15KV  | 4<br>4      |
| IEC 61000-4-3                   | RS<br>Radiated (Enclosure)  | 10 (V/m)   | 3           |
| IEC 61000-4-4                   | EFT<br>AC Power Port<br>LAN Port  | ±2.0 KV<br>±2.0 KV   | 3<br>4      |
| IEC 61000-4-5                   | Surge<br>AC Power Port<br>AC Power Port<br>LAN Port   | Line-to Line±1.0KV<br>Line-to Earth±2.0KV<br>Line-to Earth±2.0KV | 3<br>3<br>3 |
| IEC 61000-4-6                   | CS<br>(Enclosure)   | 10 V rms   | 3           |
| IEC 61000-4-8                   | PFMF<br>(Enclosure)   | AC 50/60 Hz 10 A/m   | 2           |
| Safety                          | UL60950-1/CB, EN60950-1, IEC/EN 62368-1, CNS 14336-1  |  |             |
| Shock                           | IEC 60068-2-27  |  |             |
| Freefall                        | IEC 60068-2-32  |  |             |
| Vibration                       | IEC 60068-2-64  |  |             |
| MTBF                            | 15 years (MIL-HDBK-217F)  |  |             |
| Warranty                        | 5 years   |  |             |
| RoHS                            | Yes   |  |             |
| <b>Wireless Characteristics</b> |   |  |             |
| Wireless PCI-e Module           | Atheros AR9382  |  |             |
| Tx / Rx                         | 2T2R MIMO (2x2 with MCS 0-15)   |  |             |
| Standard Conformance            | 802.11a, 802.11b, 802.11g, and 802.11n  |  |             |
| <b>Operating Frequency</b>      |   |  |             |
|                                 | 2.4Ghz  |  |             |
| United States (FCC)             | 2412-2462(20Mhz)/2422-2452(40Mhz)   |  |             |
| Europe (ETSI)                   | 2412-2472(20Mhz)/2422-2462(40Mhz)   |  |             |
| <b>Data Rate</b>                |   |  |             |
| 802.11b                         | 1, 2, 5.5 and 11Mbps  |  |             |
| 802.11g                         | 6, 9, 12, 18, 24, 36, 48, 54Mbps  |  |             |
| 802.11n                         | 20MHz bandwidth: 1Nss: 65Mbps @ 800GI, 72.2Mbps @ 400GI (Max.)<br>40MHz bandwidth: 1Nss: 135Mbps @ 800GI, 150 Mbps @ 400GI (Max.) |  |             |
| <b>Antenna (2.4GHz)</b>         |   |  |             |
| Gain                            | 3 dBi   |  |             |
| Connector                       | SMA(R) Female   |  |             |
| <b>Output Power</b>             |   |  |             |
| 802.11b                         | +14dBm  |  |             |
| 802.11g                         | +17dBm @ 6, 9, 12,18,24Mbps / +17dBm @ 36Mbps / +16dBm @ 48Mbps / +16dBm @ 54Mbps   |  |             |
| 802.11n 2.4GHz/HT20             | +16dBm @ MCS 0 +16dBm @ MCS 4 +16dBm @ MCS 1 +16dBm @ MCS 5<br>+16dBm @ MCS 2 +16dBm @ MCS 6 +16dBm @ MCS 3 +15dBm @ MCS 7        |  |             |
| 802.11n 2.4GHz/HT40             | +15dBm @ MCS 0 +15dBm @ MCS 4 +15dBm @ MCS 1 +15dBm @ MCS 5<br>+15dBm @ MCS 2 +15dBm @ MCS 6 +15dBm @ MCS 3 +14dBm @ MCS 7        |  |             |

## Receiver Sensitivity

|                 | Data Rate | IEEE Spec (1 Rx dBm) |                     | Data Rate           | IEEE Spec (1 Rx dBm) |     |
|-----------------|-----------|----------------------|---------------------|---------------------|----------------------|-----|
| 802.11b         | 1M        | not specified        | 802.11a/n<br>HT40   | MCS0                | -79                  |     |
|                 | 5.5M      | not specified        |                     | MCS1                | -76                  |     |
|                 | 11M       | not specified        |                     | MCS2                | -74                  |     |
| 802.11g         | 6M        | -82                  |                     | MCS3                | -71                  |     |
|                 | 9M        | -81                  |                     | MCS4                | -67                  |     |
|                 | 12M       | -79                  |                     | MCS5                | -63                  |     |
|                 | 18M       | -77                  |                     | MCS6                | -62                  |     |
|                 | 24M       | -74                  |                     | MCS7                | -61                  |     |
|                 | 36M       | -70                  |                     | 802.11b/g/n<br>HT20 | MCS0                 | -82 |
|                 | 48M       | -66                  |                     |                     | MCS1                 | -79 |
| 54M             | -65       | MCS2                 | -77                 |                     |                      |     |
| 802.11n<br>HT20 | MCS0      | -82                  | MCS3                |                     | -74                  |     |
|                 | MCS1      | -79                  | MCS4                |                     | -70                  |     |
|                 | MCS2      | -77                  | MCS5                |                     | -66                  |     |
|                 | MCS3      | -74                  | MCS6                |                     | -65                  |     |
|                 | MCS4      | -70                  | MCS7                | -64                 |                      |     |
|                 | MCS5      | -66                  | 802.11b/g/n<br>HT40 | MCS0                | -79                  |     |
|                 | MCS6      | -65                  |                     | MCS1                | -76                  |     |
|                 | MCS7      | -64                  |                     | MCS2                | -74                  |     |
|                 |           |                      |                     | MCS3                | -71                  |     |
|                 |           |                      |                     | MCS4                | -67                  |     |
|                 |           |                      |                     | MCS5                | -63                  |     |
|                 |           |                      |                     | MCS6                | -62                  |     |
|                 |           |                      | MCS7                | -61                 |                      |     |

## ORDERING INFORMATION

### Ordering Information

| Model name | Part Number     | Description   |
|------------|-----------------|---|
| AW5500C    | 1P1AW5500C0001G | Industrial 802.11 b/g/n Wireless AP/Client/Bridge, Fast P2P |

### Optional Accessories

| Model name                          | Part Number     | Description  |
|-------------------------------------|-----------------|--|
| UN315-1212 (US-Y)<br>Power Adaptor  | 50500151120003G | Y-Type power adaptor, 100-240VAC input, 1.25A @ 12VDC output, US plug LV6  |
| UNE315-1212 (EU-Y)<br>Power Adaptor | 50500151120013G | Y-Type power adapter, 100~240VAC input, 1.25A @ 12VDC output, EU plug, LV6 |
| UN315-2465 (US)                     | 50500161240002G | Y-Type power adapter, 100~240VAC input, 0.65A @ 24VDC output, US plug, LV6 |
| UNE315-2465 (EU)                    | 50500161240012G | Y-Type power adapter, 100~240VAC input, 0.65A @ 24VDC output, EU plug, LV6 |
| WMK-454-Black                       | 70100000000043G | Black Aluminum Wall Mount Kit  |

## DIMENSIONS & LAYOUT

