



RoHS compliant

## Industrial Wireless Access Point

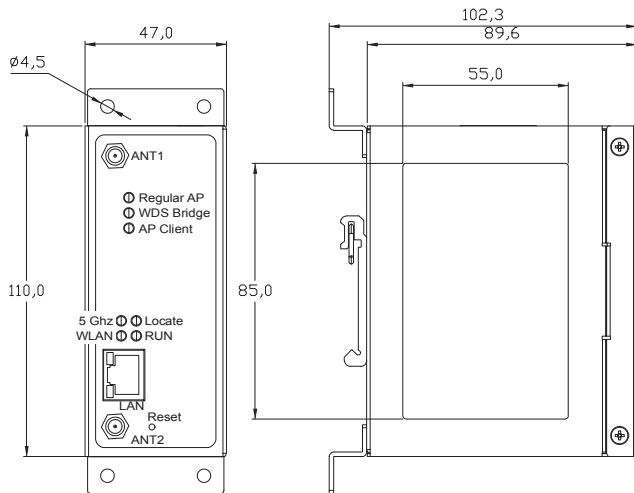
**CNC GW5501**

- Designed for 802.11a/b/g/n networks
- Embedded PCB coating protection
- Web server/Utility configuration (Device View)
- Upgrade via Device View or Web server
- 5 GHz frequency support to reduce interference on 2.4 GHz with other wireless devices
- Client isolation
- Different operating modes and topology options (WDS Bridge and AP Client)
- FCC (United States), ETSI (Europe), and NCC (Taiwan) certified wireless equipment

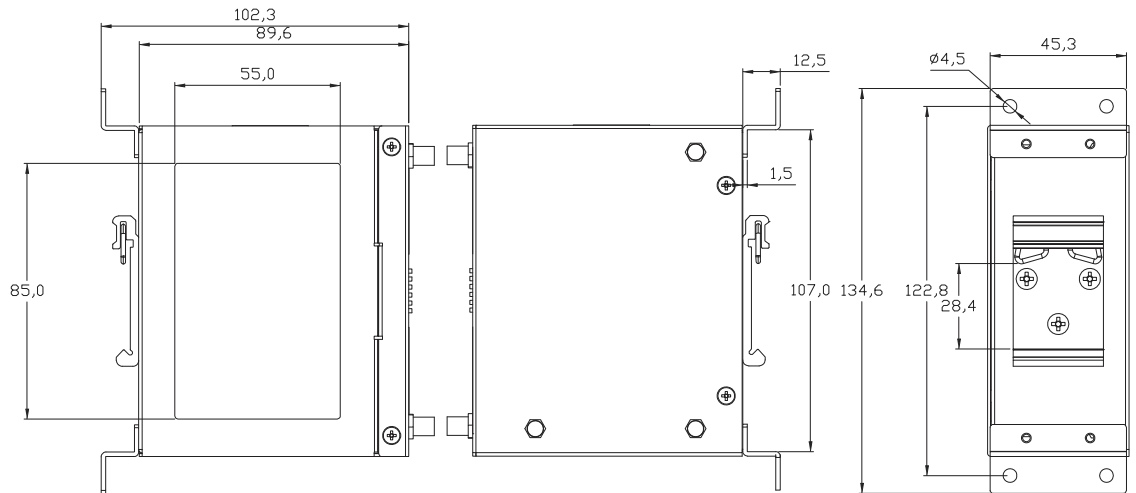
Suitable in a wide array of applications, the new AW5500 is able to withstand harsh conditions typically found in the industry.

AW5500 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. AW5500 embodies a strong wireless network manager that will surely deliver optimum performance in your network.

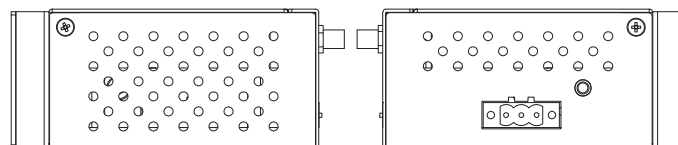
**Front and Left Side View**



**Rear and Right Side View**



**Top and Bottom View**



## Specifications

## Power Characteristics

Input Voltage	9VDC-48VDC
Input Current(9VDC)	0.65A
Power Consumption	Approx. 5.85W (max)
Reverse Polarity Protection	Yes
Connection	3-pin Lockable Terminal Block

## Mechanicals

Dimensions(W X H x D)	47 X 110 X 90 mm
Installation	DIN-Rail, wall mount (optional kit)
Reset Button	Yes

## Hardware Characteristics

Watchdog	Hardware built-in
Ethernet Switch & PHY	IEEE802.3ab 1000 Base-T

## 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)

## Regulatory Requirements

EMS	EN55022, EN55024
EMC	EN 301489-1/17 (Class A), FCC 15 Subpart B (Class A), CNS 13438
Radio	FCC 15 Subpart C, FCC 15 Subpart E, EN 301893, EN 300328, NCC LP00002

Test	Item	Value	Level	
EN61000-4-2	ESD	Contact Discharge	±8KV	4
		Air Discharge	±15KV	4
EN61000-4-3	RS	Radiated(Enclosure)	10(V/m)	3
EN61000-4-4	EFT	AC Power Port	±2.0 KV	3
		LAN Port	±2.0 KV	4
EN61000-4-5	Surge	AC Power Port	Line-to-Line±1.0 KV	3
		AC Power Port	Line-to-Earth±2.0 KV	3
		LAN Port	Line-to-Earth±2.0 KV	3
EN61000-4-6	CS	Conducted(Enclosure)	10 V rms	3
EN61000-4-8	PFMF	(Enclosure)	10(A/m)	3

Safety	UL60950-1/CB, EN60950-1, CNS 14336
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6
MTBF	(TBD)
RoHS	Yes

## 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/RSTP

Warranty 5 years

## Ordering Information

AW5500 P/N:1P1AW55000001G Industrial Wireless Access Point

## Optional Accessories

AD17-24C (US-Y) Power Adapter P/N: 50500151240002G

Y-Type power adaptor,100-240VAC input, 0.6A @ 24VDC output, US plug

AD17-24D (EU-Y) Power Adapter P/N: 50500151240012G

Y-Type power adaptor,100-240VAC input, 0.6A @ 24VDC output, EU plug

### Wireless Characteristics

<b>Wireless PCI-e Module</b>	Atheros AR9382
<b>Tx / Rx</b>	2T2R MIMO (2x2 with MCS 0-15)
<b>Standard Conformance</b>	802.11a, 802.11b, 802.11g, and 802.11n
<b>Antenna</b>	3/5 dBi Dual antenna design, SMA(R) Female connector

### Operating Frequency

	2.4Ghz	5Ghz
<b>United States (FCC)</b>	2412-2462(20Mhz)/2422-2452(40Mhz)	5180-5240, 5745-5825(20Mhz)/5190-5230, 5755-5795(40Mhz)
<b>Europe (ETSI)</b>	2412-2472(20Mhz)/2422-2462(40Mhz)	5180-5240(20Mhz)/5190-5230(40Mhz)
<b>Taiwan (NCC)</b>	2412-2462(20Mhz)/2422-2452(40Mhz)	5280-5320, 5745-5825(20Mhz)/5310, 5755-5795(40Mhz)

### Data Rate




<b>802.11a</b>	6, 9, 12, 18, 24, 36, 48, 54Mbps
<b>802.11b</b>	1, 2, 5.5 and 11Mbps
<b>802.11g</b>	6, 9, 12, 18, 24, 36, 48, 54Mbps
<b>802.11n</b>	20MHz bandwidth: 1Nss: 65Mbps @ 800GI, 72.2Mbps @ 400GI (Max.) / 2Nss: 130Mbps @ 800GI, 144.4Mbps @ 400GI (Max.) 40MHz bandwidth: 1Nss: 135Mbps @ 800GI, 150Mbps @ 400GI (Max.) / 2Nss: 270Mbps @ 800GI, 300Mbps @ 400GI (Max.)

### Output Power

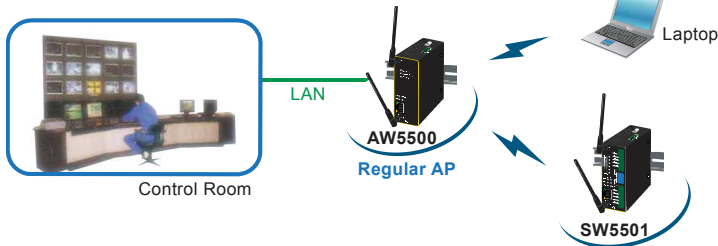
<b>802.11a</b>	+15dBm @ 6, 9, 12, 18, 24Mbps / +15dBm @ 36Mbps / +14dBm @ 48Mbps / +12dBm @ 54Mbps			
<b>802.11b</b>	+14dBm			
<b>802.11g</b>	+17dBm @ 6, 9, 12, 18, 24Mbps / +17dBm @ 36Mbps / +16dBm @ 48Mbps / +16dBm @ 54Mbps			
<b>802.11n 2.4GHz/HT20</b>	+16dBm @ MCS 0/8	+16dBm @ MCS 4/12	+16dBm @ MCS 1/9	+16dBm @ MCS 5/13
	+16dBm @ MCS 2/10	+16dBm @ MCS 6/14	+16dBm @ MCS 3/11	+15dBm @ MCS 7/15
<b>802.11n 2.4GHz/HT40</b>	+15dBm @ MCS 0/8	+15dBm @ MCS 4/12	+15dBm @ MCS 1/9	+15dBm @ MCS 5/13
	+15dBm @ MCS 2/10	+15dBm @ MCS 6/14	+15dBm @ MCS 3/11	+14dBm @ MCS 7/15
<b>802.11n 5GHz/HT20</b>	+15dBm @ MCS 0/8	+15dBm @ MCS 4/12	+15dBm @ MCS 1/9	+11 - 14dBm @ MCS 5/13
	+15dBm @ MCS 2/10	+9 - 12dBm @ MCS 6/14	+15dBm @ MCS 3/11	+7 - 10dBm @ MCS 7/15
<b>802.11n 5GHz/HT40</b>	+14dBm @ MCS 0/8	+14dBm @ MCS 1/9	+14dBm @ MCS 2/10	+14dBm @ MCS 3/11
	+14dBm @ MCS 4/12	+10- 13dBm @ MCS 5/13	+8 - 11dBm @ MCS 6/14	+6 - 9dBm @ MCS 7/15

Receiver Sensitivity							
	Data Rate	IEEE Spec(1 Rx dBm)	Typical/Maximum( 2Rx dBm)		Data Rate	IEEE Spec(1 Rx dBm)	Typical/Maximum( 2Rx dBm)
<b>802.11a</b>	6M	-82	-95/-85	<b>802.11a/n HT40</b>	MCS0	-79	-92/-82
	9M	-81	-94/-84		MCS1	-76	-90/-79
	12M	-79	-93/+82		MCS2	-74	-87/-77
	18M	-77	-90/-80		MCS3	-71	-84/-74
	24M	-74	-88/-77		MCS4	-67	-80/-70
	36M	-70	-84/-73		MCS5	-63	-76/-66
	48M	-66	-82/-69		MCS6	-62	-74/-65
<b>802.11b</b>	1M	not specified	-98/-85	<b>802.11b/g/n HT20</b>	MCS0	-82	-95/-85
	5.5M	not specified	-98/-85		MCS1	-79	-94/-82
	11M	not specified	-94/-85		MCS2	-77	-92/-80
<b>802.11g</b>	6M	-82	-96/-85	<b>802.11b/g/n HT40</b>	MCS3	-74	-89/-77
	9M	-81	-96/-84		MCS4	-70	-86/-73
	12M	-79	-95/-82		MCS5	-66	-82/-69
	18M	-77	-93/-80		MCS6	-65	-80/-68
	24M	-74	-90/-77		MCS7	-64	-78/-67
	36M	-70	-87/-73		MCS0	-79	-92/-82
	48M	-66	-83/-69		MCS1	-76	-92/-79
<b>802.11a/n HT20</b>	54M	-65	-82/-68	MCS2	-74	-89/-77	
	MCS0	-82	-94/-85	MCS3	-71	-86/-74	
	MCS1	-79	-92/-82	MCS4	-67	-83/-70	
	MCS2	-77	-90/-80	MCS5	-63	-77/-66	
	MCS3	-74	-87/-77	MCS6	-62	-76/-65	
	MCS4	-70	-84/-73	MCS7	-61	-75/-64	
	MCS5	-66	-79/-69				
	MCS6	-65	-78/-68				
	MCS7	-64	-76/-67				

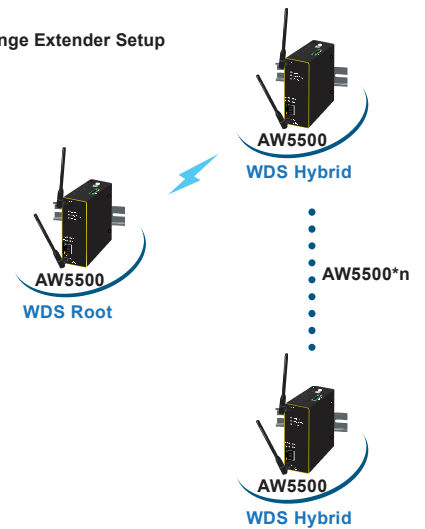
Application

-  LAN
-  WLAN
-  WDS

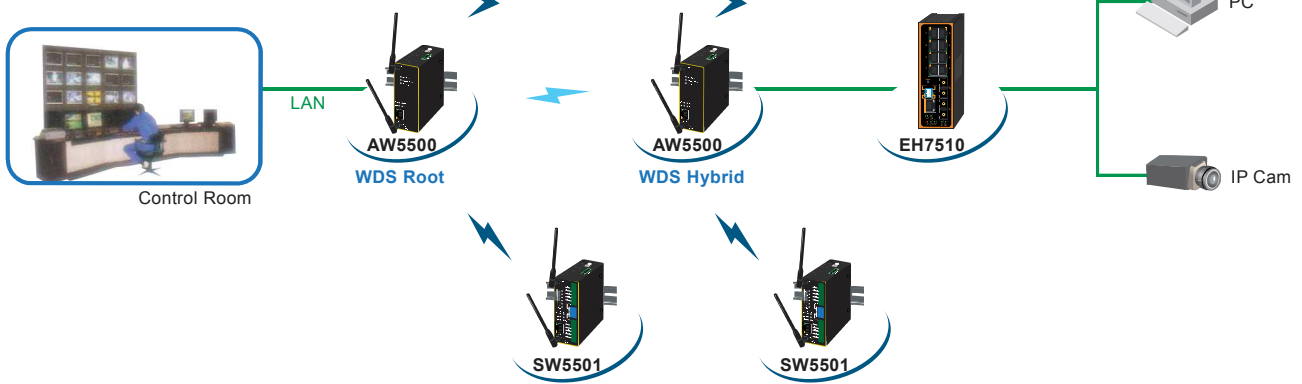
Basic Access Point Setup



Coverage Range Extender Setup



Basic WDS Setup



AP Client Setup

