



RoHS compliant

Industrial Wireless Access Point

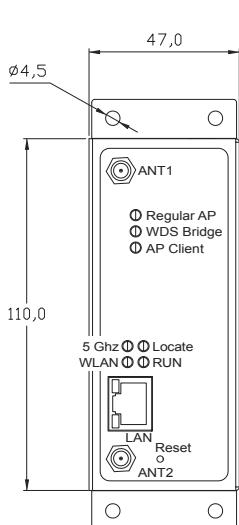
■ ■ AW5500

- 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

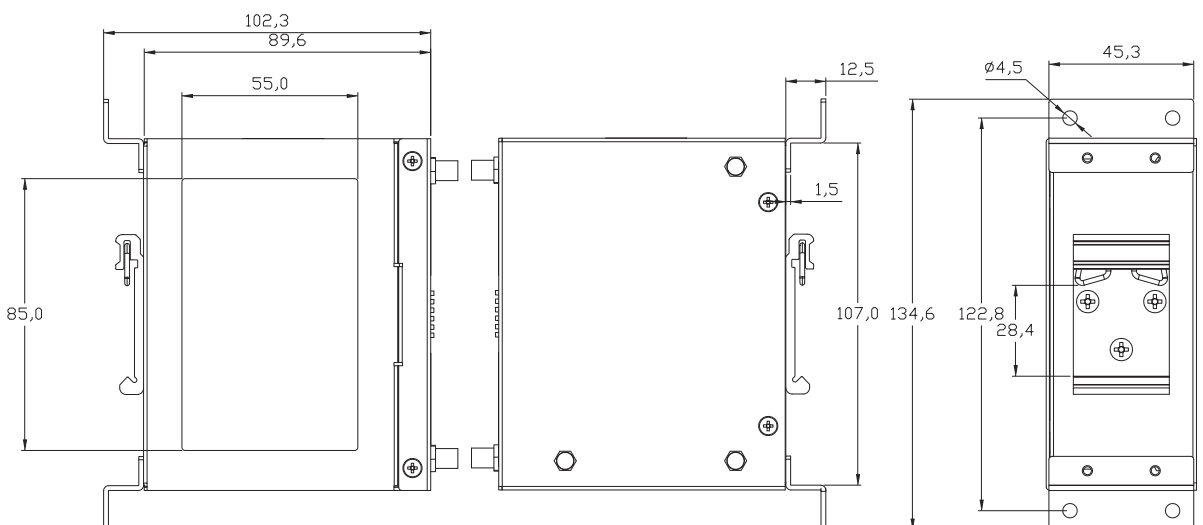
Suitable in a wide array of applications, the new AW5500 is able to withstand harsh conditions typically found in the industry.

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.

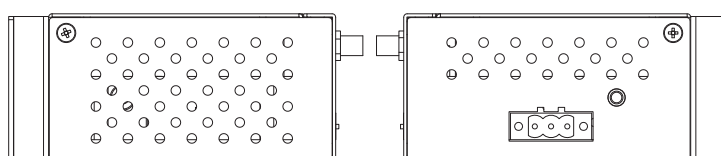
Front and Left Side View



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
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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

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
Antenna	3/5 dBi Dual antenna design, SMA(R) Female connector

Operating Frequency

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

Data Rate

802.11a	6, 9, 12, 18, 24, 36, 48, 54Mbps
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.) / 2Nss: 130Mbps @ 800GI, 144.4Mbps @ 400GI (Max.) 40MHz bandwidth: 1Nss: 135Mbps @ 800GI, 150Mbps @ 400GI (Max.) / 2Nss: 270Mbps @ 800GI, 300Mbps @ 400GI (Max.)

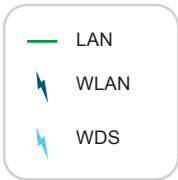
Output Power

802.11a	+15dBm @ 6, 9, 12, 18, 24Mbps / +15dBm @ 36Mbps / +14dBm @ 48Mbps / +12dBm @ 54Mbps			
802.11b	+14dBm			
802.11g	+17dBm @ 6, 9, 12, 18, 24Mbps / +17dBm @ 36Mbps / +16dBm @ 48Mbps / +16dBm @ 54Mbps			
802.11n 2.4GHz/HT20	+16dBm @ MCS 0/8	+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
802.11n 2.4GHz/HT40	+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
802.11n 5GHz/HT20	+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
802.11n 5GHz/HT40	+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

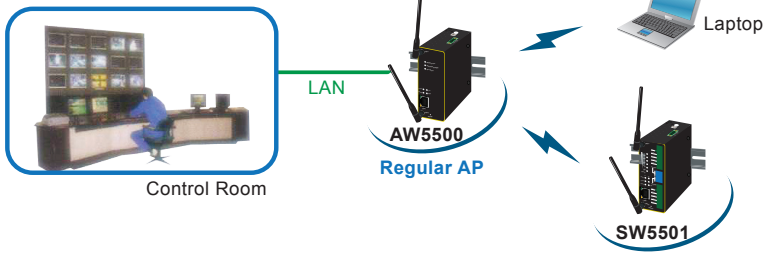
Receiver Sensitivity

	Data Rate	IEEE Spec(1 Rx dBm)	Typical/Maximum(2Rx dBm)		Data Rate	IEEE Spec(1 Rx dBm)	Typical/Maximum(2Rx dBm)
802.11a	6M	-82	-95/-85	802.11a/n HT40	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
	54M	-65	-81/-68		MCS7	-61	-72/-64
802.11b	1M	not specified	-98/-85	802.11b/g/n HT20	MCS0	-82	-95/-85
	5.5M	not specified	-98/-85		MCS1	-79	-94/-82
	11M	not specified	-94/-85		MCS2	-77	-92/-80
802.11g	6M	-82	-96/-85	802.11b/g/n HT40	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
	54M	-65	-82/-68		MCS2	-74	-89/-77
802.11a/n HT20	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					

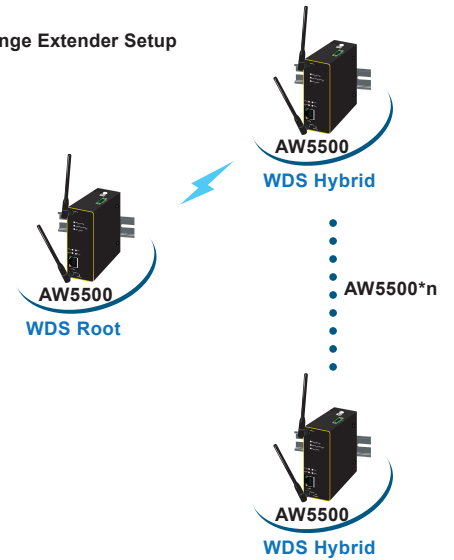
Application



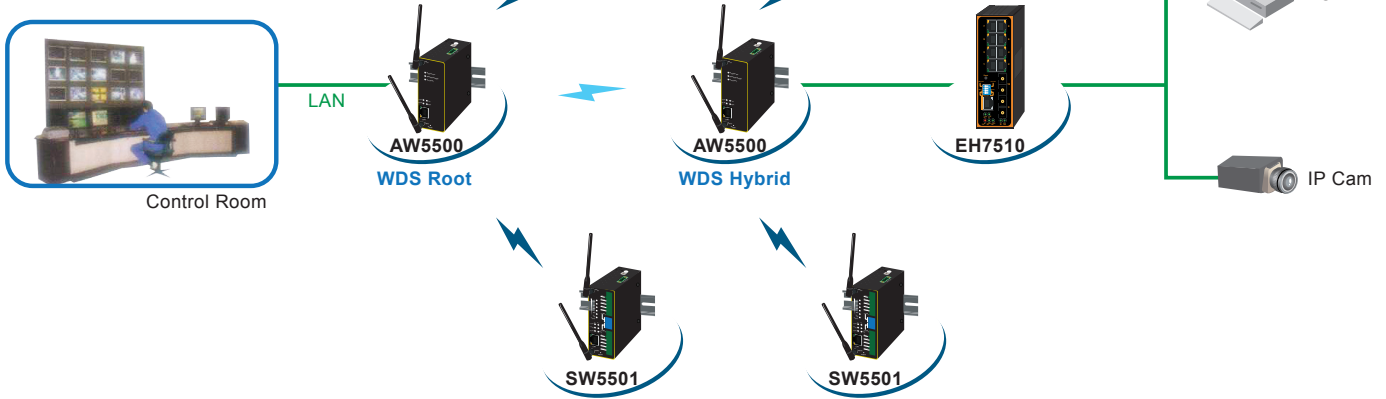
Basic Access Point Setup



Coverage Range Extender Setup



Basic WDS Setup



AP Client Setup



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