Device Networking Access

RoHS compliant

Industrial Wireless Access Point

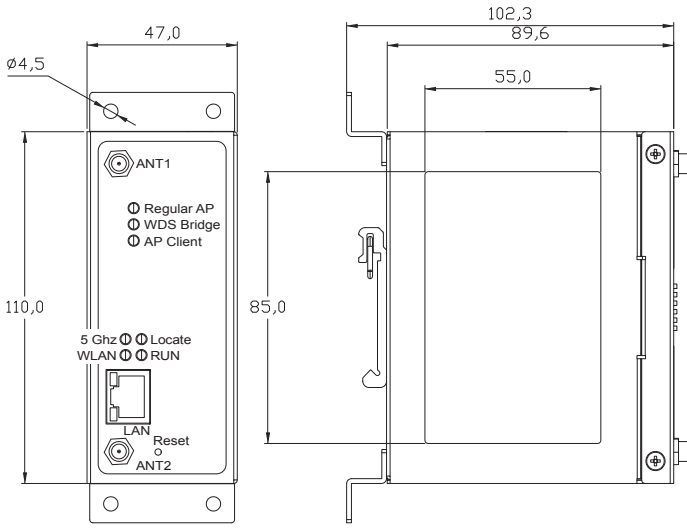
AW5500

- 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

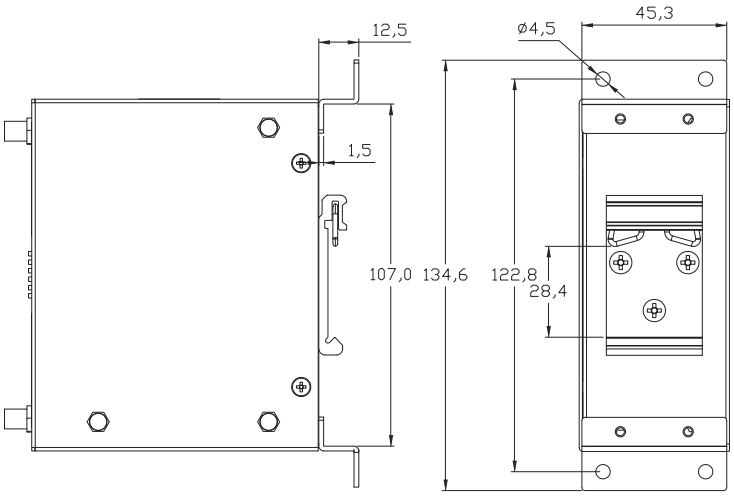
Suitable in a wide array of applications, the new AW5500 is able to withstand harsh conditions typically found in the industry.

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.

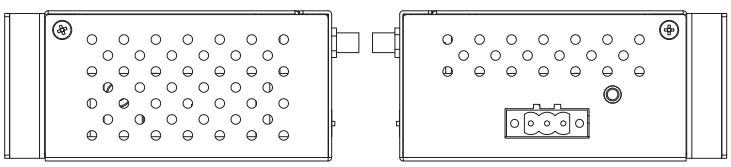
Front and Left Side View



Rear and Right Side View



Top and Bottom View



Industrial Wireless Access Point

AW5500

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:1P1AW550000001G	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

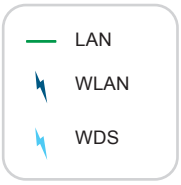
Y-Type power adaptor,100-240VAC input, 0.6A @ 24VDC output, EU plug

Wireless Characteristics				
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

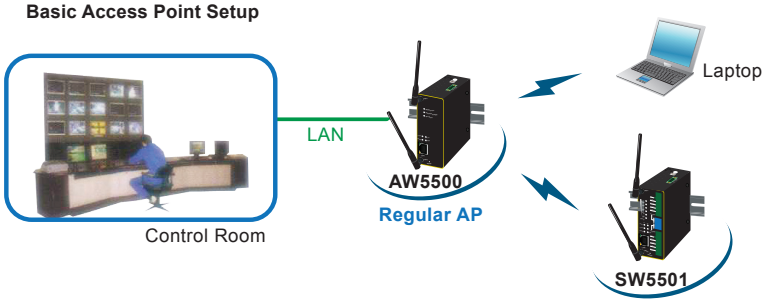
Receiver Sensitivity

	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		MCS0	-82	-95/-85
	5.5M	not specified	-98/-85	**802.11b/g/n HT20**	MCS1	-79	-94/-82
	11M	not specified	-94/-85		MCS2	-77	-92/-80
802.11g	6M	-82	-96/-85		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	**802.11b/g/n HT40**	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				

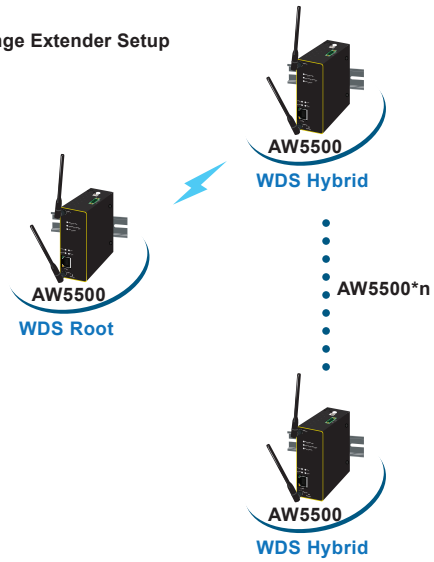
Application



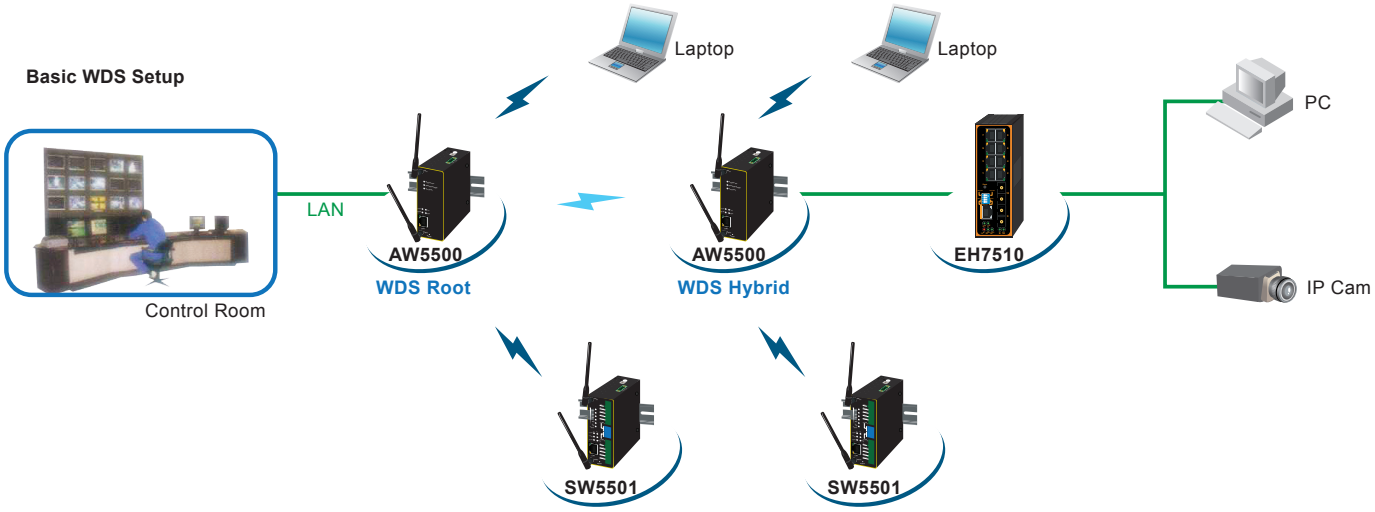
Basic Access Point Setup



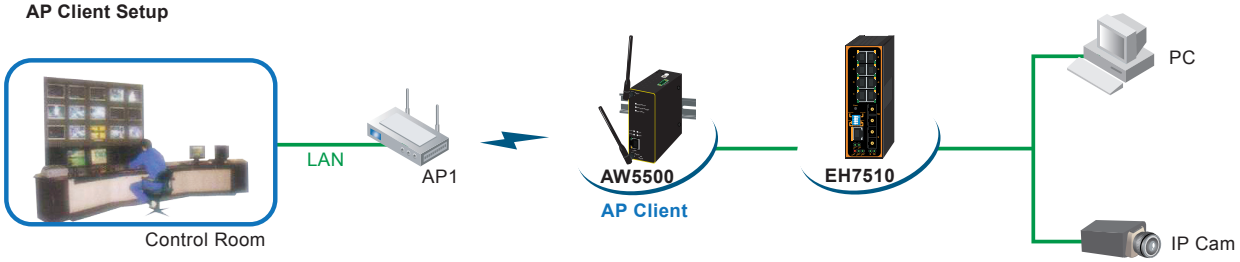
Coverage Range Extender Setup



Basic WDS Setup



AP Client Setup



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