Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Device Networking Access

Industrial Wireless Access Point
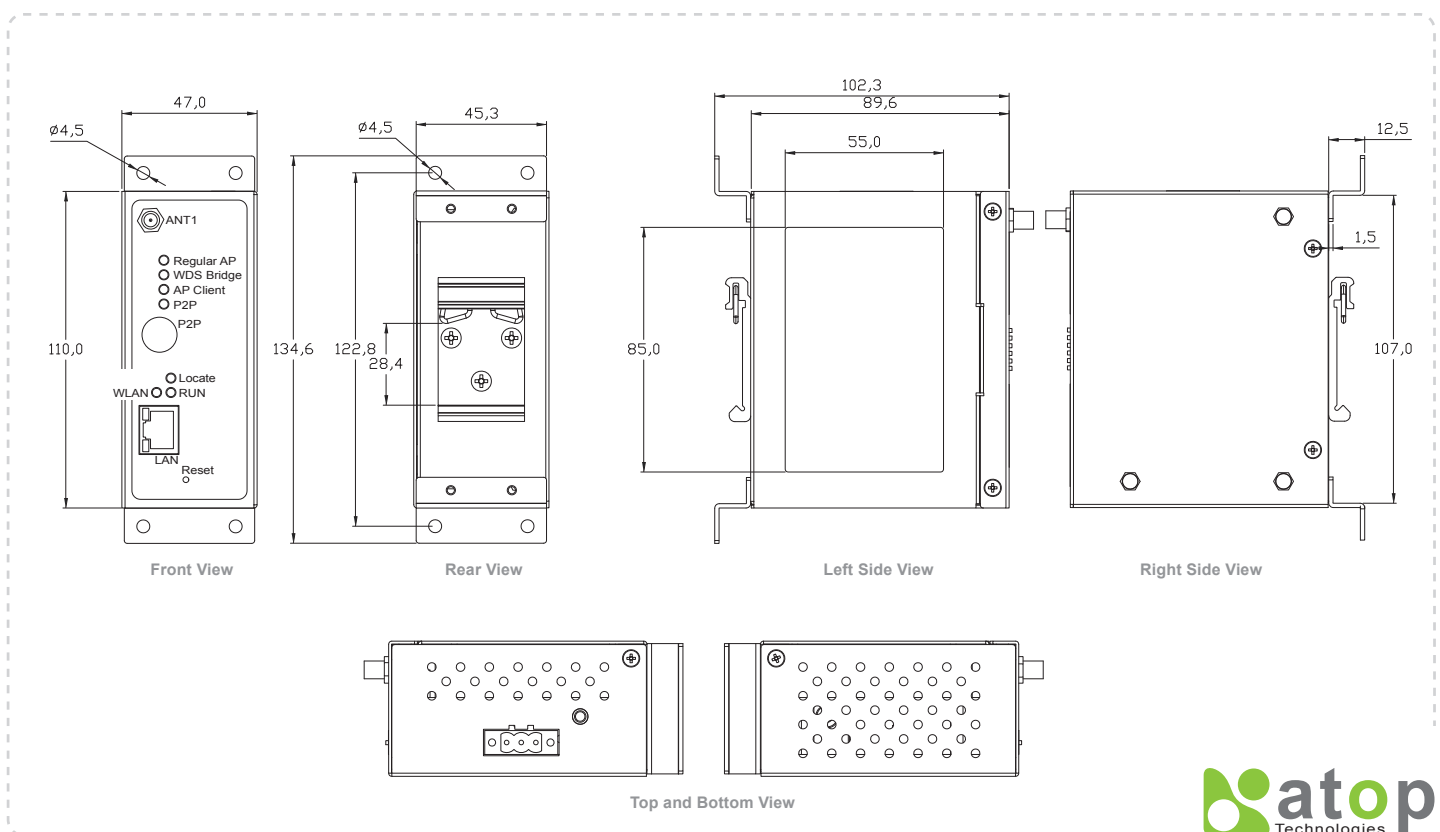
■ ■ **AW5500C**

RoHS II compliant

- 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)

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.

Front View

Rear View

Left Side View

Right Side View

Top and Bottom View

atop Technologies

Industrial Wireless Access Point

AW5500C

Specifications	
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
Warranty	5 years
Regulatory Requirements	
EMC	EN 301489-1 V1.9.2, EN301489-17 V2.2.2 (Class A), FCC 15B (Class A)
Radio	FCC 15C 15.247, EN 300328 V1.8.1,EN 301893 V1.7.1
EMF	EN 62311: 2008, EN 50385: 2002

Test		Item	Value	Level
IEC 61000-4-2	ESD	Contact Discharge	±4KV	2
		Air Discharge	±8KV	3
IEC 61000-4-3	RS	Radiated(Enclosure)	3(V/m)	2
IEC 61000-4-4	EFT	AC Power Port	±2.0 KV	3
		DC Power Port	±0.5 KV / ±1.0 KV	1 / 2
		Signal Port	±0.5 KV	3
IEC 61000-4-5	Surge	AC Power Port	Line-to-Line±1.0 KV / Line-to-Earth±2.0 KV	3
		DC Power Port	Line-to-Earth±0.5KV / ±1.0 KV	1 / 2
		Signal Port	Line-to-Line±1.0 KV / Line-to-Earth±1.0 KV	2
IEC 61000-4-6	CS	Conducted(Enclosure)	3 V rms	2
IEC 61000-4-8	PFMF	(Enclosure)	3(A/m)	2
IEC 61000-4-11	DIP	AC Power Port	-	-

*AC Ports are tested through an power adaptor available in the accessory.

Safety	UL60950-1/CB, EN60950-1
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-64
MTBF	15 years (MIL-HDBK-217F)
RoHS II	Yes

Ordering Information		
AW5500C	P/N:1P1AW5500C0001G	Industrial Wireless Access Point

Optional Accessories		
UN315-1212 (US-Y)	P/N: 50500151120003G	Y-Type power adapter, 100~240VAC input, 1.25A @ 12VDC output, US plug, LV6
UNE315-1212 (EU-Y)	P/N: 50500151120013G	Y-Type power adapter, 100~240VAC input, 1.25A @ 12VDC output, EU plug, LV6

UN315-2465 (US)	P/N: 50500161240002G	Y-Type power adapter, 100~240VAC input, 0.65A @ 24VDC output, US plug, LV6	
UNE315-2465 (EU)	P/N: 50500161240012G	Y-Type power adapter, 100~240VAC input, 0.65A @ 24VDC output, EU plug, LV6	
WMK-454-Black	P/N: 70100000000043G	Black Aluminum Wall Mount Kit	

Wireless Characteristics

Wireless PCI-e Module	Atheros AR9382
Tx / Rx	1T1R MIMO (1 x 1 with MCS 0-7)
Standard Conformance	802.11b, 802.11g, and 802.11n

Operating Frequency

	2.4Ghz	
United States (FCC)	2412-2462(20Mhz)/2422-2452(40Mhz)	
Europe (ETSI)	2412-2472(20Mhz)/2422-2462(40Mhz)	

Data Rate

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.)
	40MHz bandwidth: 1Nss: 135Mbps @ 800GI, 150 Mbps @ 400GI (Max.)

Antenna (2.4GHz)

Gain	3dBi
Connector	SMA(R) Female

Output Power

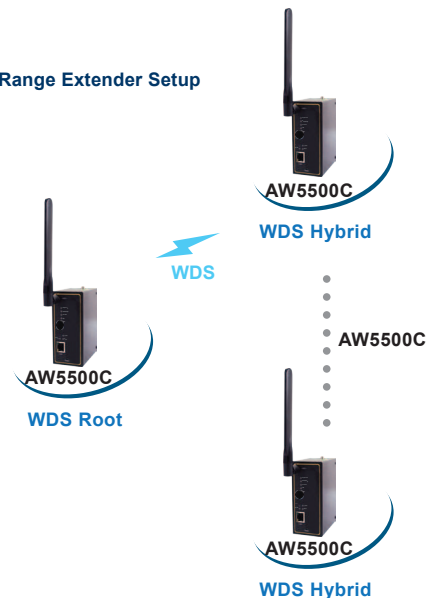|				
802.11b	+14dBm			
802.11g	+17dBm @ 6, 9, 12,18,24Mbps / +17dBm @ 36Mbps / +16dBm @ 48Mbps / +16dBm @ 54Mbps			
802.11n 2.4GHz/HT20	+16dBm @ MCS 0	+16dBm @ MCS 4	+16dBm @ MCS 1	+16dBm @ MCS 5
	+16dBm @ MCS 2	+16dBm @ MCS 6	+16dBm @ MCS 3	+15dBm @ MCS 7
802.11n 2.4GHz/HT40	+15dBm @ MCS 0	+15dBm @ MCS 4	+15dBm @ MCS 1	+15dBm @ MCS 5
	+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	**802.11n**	MCS0	-79
	5.5M	not specified	**HT40**	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**	MCS0	-82
	48M	-66	**HT20**	MCS1	-79
	54M	-65		MCS2	-77
802.11n	MCS0	-82		MCS3	-74
HT20	MCS1	-79		MCS4	-70
	MCS2	-77		MCS5	-66
	MCS3	-74		MCS6	-65
	MCS4	-70		MCS7	-64
	MCS5	-66	**802.11b/g/n**	MCS0	-79
	MCS6	-65	**HT40**	MCS1	-76
	MCS7	-64		MCS2	-74
				MCS3	-71
				MCS4	-67
				MCS5	-63
				MCS6	-62
				MCS7	-61

Basic Access Point Setup

Laptop

WLAN

LAN

AW5500C
Regular AP

Control Room

SW550xC
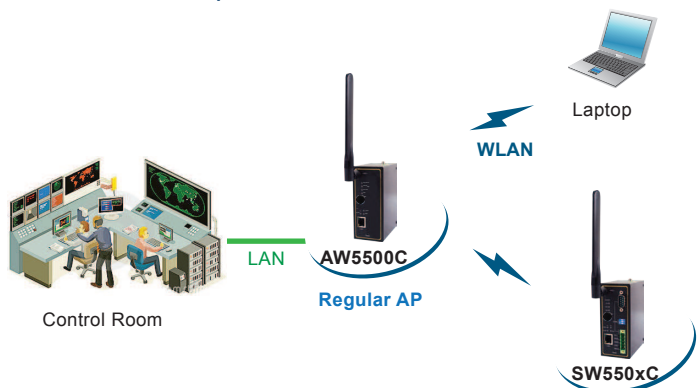
Coverage Range Extender Setup

AW5500C
WDS Hybrid

WDS

AW5500C

AW5500C
WDS Root

AW5500C
WDS Hybrid

Basic WDS Setup

Laptop

Laptop

WLAN

WDS

PC

AW5500C
WDS Root

AW5500C
WDS Hybrid

LAN

EH7510

IP Camera

SW550xC

SW550xC

AP Client Setup

IP Camera

Control Room

LAN

WLAN

AW5500C
AP Client

LAN

EH7510

AP

PC

WPS / Wi-Fi Direct Mode

Control Room

LAN

Laptop

AW5500C
Peer

WLAN

AW5500C
Peer

LAN

IP Camera
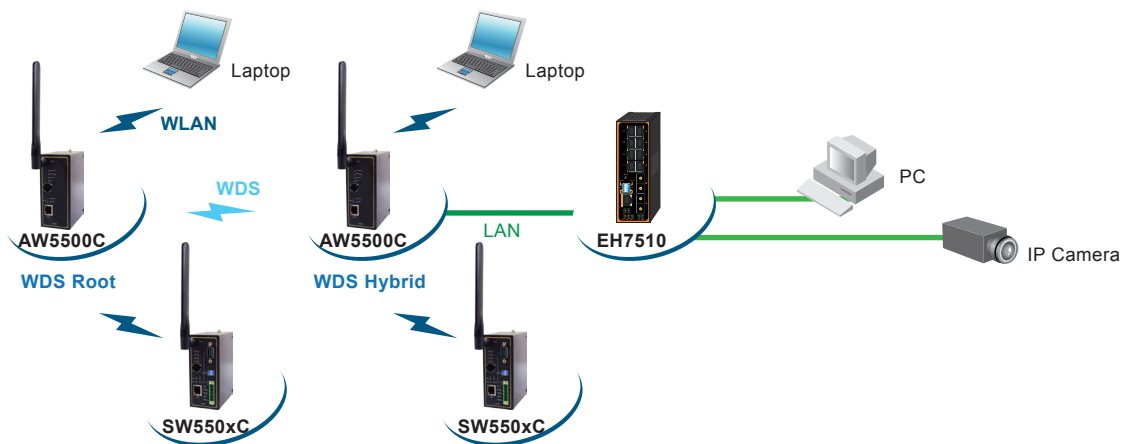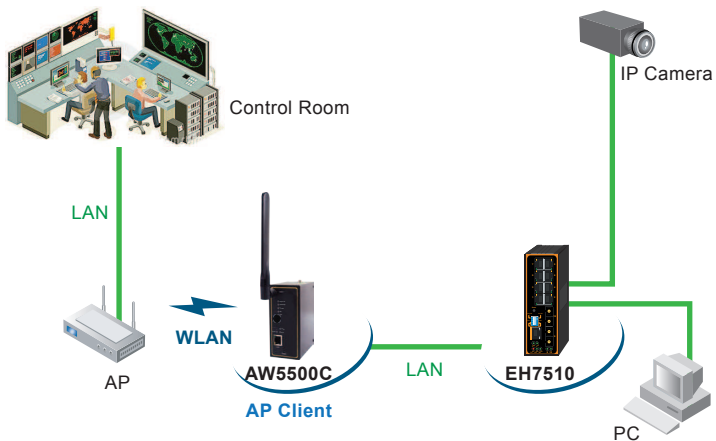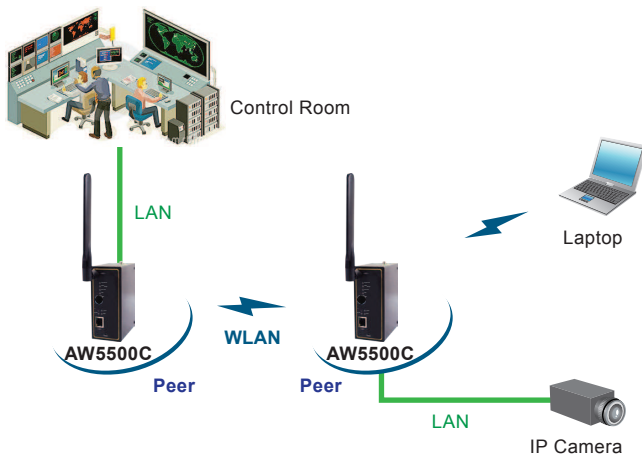
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