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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!



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## Industrial Wireless Serial Device Server

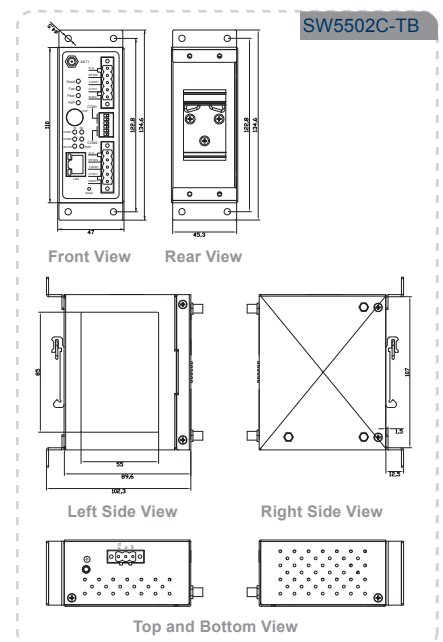
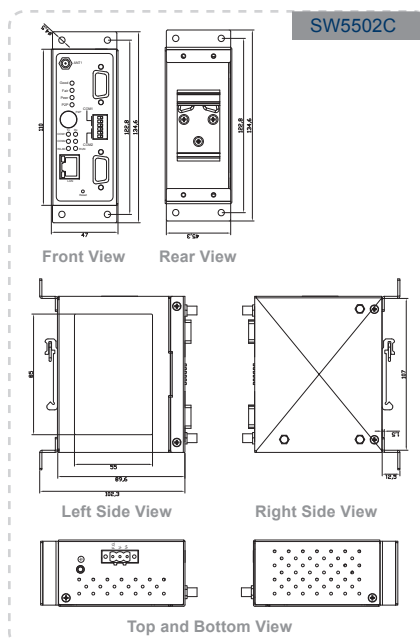
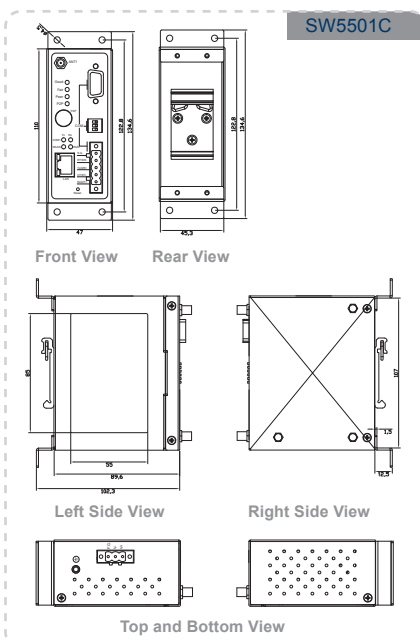
■ ■ SW5501C/SW5502C/SW5502C-TB

RoHS II compliant

- Designed for 802.11 b/g/n networks
- Web server/Utility configuration
- Upgrade via Serial Manager or Web server
- FCC (United States), ETSI (Europe) certified wireless equipment
- RS232/422/485 software selectable
- D-sub9 or TB5 combo serial port (SW5501C)
- Support Wi-Fi Direct (Peer-to-Peer)

The SW550xC Series is our latest addition to our Industrial Wireless products; its small size but powerful architecture makes it a perfect choice for industrial/manufacturing needs in which size is a decisive factor. It rewards our customers with superb connectivity withstanding all the harshness in your environment of choice.

The SW550xC Series supports “Wi-Fi Direct” technology that makes Wi-Fi usage to be an ease-to-use connectivity, and delivers an industry-wide peer-to-peer solution based on broadly deployed Wi-Fi technologies.



Specifications				
<b>Network Interface</b>				
Connector	RJ-45			
Speed	IEEE802.3u, 100Base-T(X)			
<b>Serial Interface</b>				
Connector	D-Sub9 or TB5 combo RS-232/422/485 software selectable (SW5501C) D-Sub9 RS-232/422/485 software selectable (SW5502C) 5.08mm TB5 RS-232/422/485 software selectable (SW5502C-TB)			
Ports	SW5501C: 1 Port / SW5502C: 2 Ports			
Baud Rate	110 ~ 921600Kbps			
Parity	None, Odd, Even, Space, Mark			
Data Bits	5,6,7,8			
Stop Bits	1,2			
Flow Control	None, Xon / Xoff, RTS/CTS			
<b>Power Characteristics</b>				
Input Voltage	9VDC - 48VDC			
Input Current(9VDC)	0.65A			
Power Consumption	Approx. 5.85Watts			
Reverse Polarity Protection	Yes			
Connection	5.08mm 3-pin Lockable Terminal Block			
<b>Mechanicals</b>				
Protection Rating	IP30			
Dimensions(W X H x D)	47 mm x 110 mm x 90mm			
Installation	DIN Rail, Wall Mount (optional)			
Reset Button	Yes			
Wi-Fi Direct(P2P) Button	Yes			
Weight	500g			
<b>Environmental Limits</b>				
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)			
<b>Software</b>				
Protocols	IPv4, ICMP, TCP, UDP, DHCP Client, SNMP, SMTP, HTTP, DNS, NTP, RADIUS, RFC2217, WPS, Syslog			
Wireless Security	WEP, WPA, WPA2, TKIP, AES, 802.1x			
Configuration	Atop Device Management Utility, Web UI			
Virtual COM	Windows / Linux redirection software			
<b>Link Modes</b>				
TCP Server	4 connections, Virtual COM, or Reverse Telnet			
TCP Client	Dual destinations or Virtual COM			
UDP	Up to 4 ranges of IPs			
MTBF	14 years (MIL-HDBK-217F)			
Warranty	5 years			
<b>Regulatory Requirements</b>				
EMC	EN 301489-1 V1.9.2, EN301489-17 V2.2.2 (Class A), FCC 15B (Class A)			
Radio	FCC 15C 15.247, FCC 15E 15.407, EN 301893 V1.7.1, EN 300328 V1.8.1			
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	2
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.

<b>Safety</b>	UL60950-1/CB, EN60950-1
<b>Shock</b>	IEC 60068-2-27
<b>Freefall</b>	IEC 60068-2-32
<b>Vibration</b>	IEC 60068-2-64
<b>MTBF</b>	22 years (MIL-HDBK-217F)
<b>RoHS II</b>	Yes

#### Wireless Characteristics

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

#### Operating Frequency

	2.4Ghz
<b>United States (FCC)</b>	2412-2462(20MHz)/2422-2452(40MHz)
<b>Europe (ETSI)</b>	2412-2472(20MHz)/2422-2462(40MHz)

#### Data Rate

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

#### Antenna (2.4GHz)

<b>Gain</b>	3dBi
<b>Connector</b>	SMA(R) Female

#### Output Power

<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	+16dBm @ MCS 4	+16dBm @ MCS 1	+16dBm @ MCS 5
	+16dBm @ MCS 2	+16dBm @ MCS 6	+16dBm @ MCS 3	+15dBm @ MCS 7
<b>802.11n 2.4GHz/HT40</b>	+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)
<b>802.11b</b>	1M	not specified	<b>802.11n HT40</b>	MCS0	-79
	5.5M	not specified		MCS1	-76
	11M	not specified		MCS2	-74
<b>802.11g</b>	6M	-82	<b>802.11b/g/n HT20</b>	MCS3	-71
	9M	-81		MCS4	-67
	12M	-79		MCS5	-63
	18M	-77		MCS6	-62
	24M	-74		MCS7	-61
	36M	-70		MCS0	-82
	48M	-66		MCS1	-79
54M	-65	MCS2	-77		
<b>802.11n HT20</b>	MCS0	-82	<b>802.11b/g/n HT40</b>	MCS3	-74
	MCS1	-79		MCS4	-70
	MCS2	-77		MCS5	-66
	MCS3	-74		MCS6	-65
	MCS4	-70		MCS7	-64
	MCS5	-66		MCS0	-79
	MCS6	-65		MCS1	-76
	MCS7	-64		MCS2	-74
			MCS3	-71	
			MCS4	-67	
			MCS5	-63	
			MCS6	-62	
			MCS7	-61	

## Ordering Information

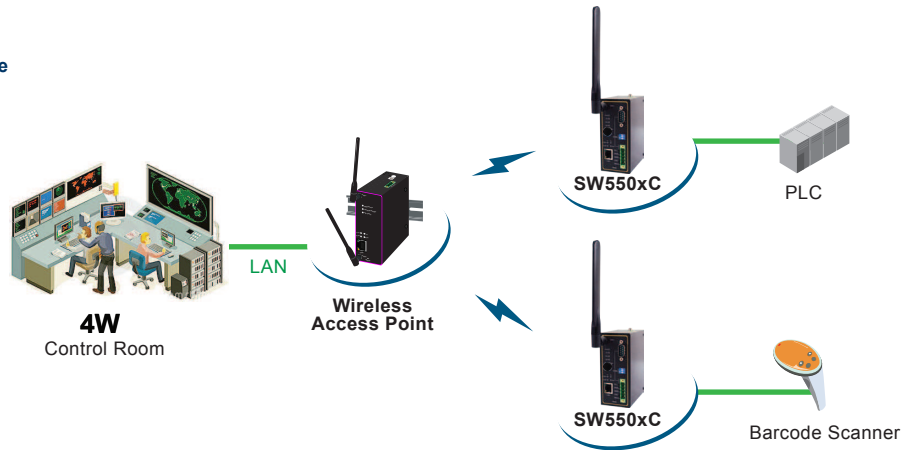
<b>SW5501C</b>	P/N:1P1SW5501C0001G 1-port Industrial Wireless Serial Device Server, DB9 or TB5 combo
<b>SW5502C</b>	P/N:1P1SW5502C0001G 2-port Industrial Wireless Serial Device Server, DB9
<b>SW5502C-TB</b>	P/N:1P1SW5502CTB01G 2-port Industrial Wireless Serial Device Server, TB5

## Optional Accessories

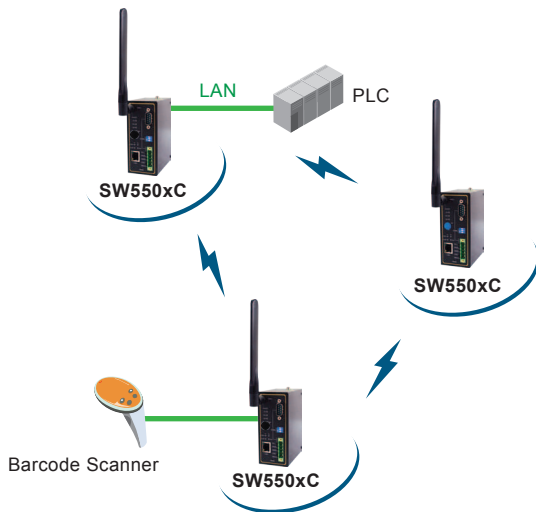
<b>UN315-1212 (US-Y)</b>	P/N: 50500151120003G
<b>Power Adapter</b>	Y-Type power adapter, 100~240VAC input, 1.25A @ 12VDC output, US plug, LV6
<b>UNE 315-1212 (EU-Y)</b>	P/N: 50500151120013G
<b>Power Adapter</b>	Y-Type power adapter, 100~240VAC input, 1.25A @ 12VDC output, EU plug, LV6
<b>UN315-2465 (US)</b>	P/N: 50500161240002G
	Y-Type power adapter, 100~240VAC input, 0.65A @ 24VDC output, US plug, LV6
<b>UNE315-2465 (EU)</b>	P/N: 50500161240012G
	Y-Type power adapter, 100~240VAC input, 0.65A @ 24VDC output, EU plug, LV6
<b>ADP-DB9(F)-TB5</b>	P/N: 59906231G
	Female DB9 to Female 3.81 TB5 Converter
<b>WMK-454-Black</b>	P/N: 70100000000043G
	Black Aluminum Wall Mount Kit

## Application

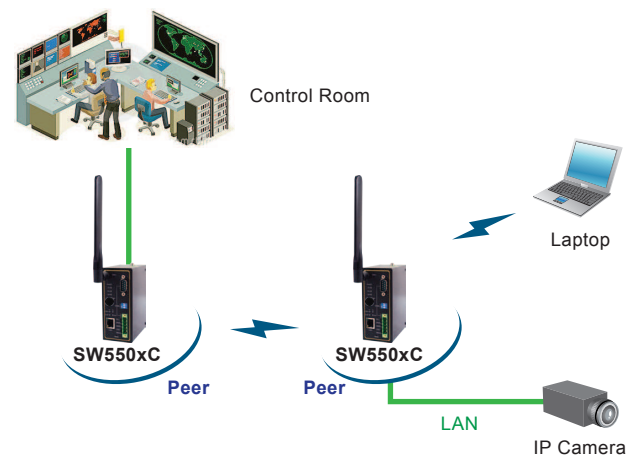
### Client Mode



### Adhoc Mode



### Wi-Fi Direct Mode



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