



STW-611C / STW-612C

1/2-Port (RS232/422/485) Industrial IEEE 802.11b/g/n Wireless Serial Device Server, with Bridge Mode



Features

- ▶ 3-Way Communication with Any Serial or Ethernet Device to Wireless Network
- ▶ Supports Wi-Fi Direct Technology (Point-to-Point) for Easy Setup
- ▶ IEEE 802.11b/g/n Compliant w/WPA, WPA2, 802.1x Security
- ▶ 1 or 2 RS232/422/485 Software Selectable Serial Ports
- ▶ Supports 1-Port 10/100Tx RJ45 Ethernet Port
- ▶ Serial Data Throughput Rate: 110~921.6Kbps
- ▶ Supports Virtual COM, TCP/UDP Server/Client, and Tunneling Mode
- ▶ Configuration via Built-in Web Console, and Windows Utilities
- ▶ Power Input Design - 9~48VDC
- ▶ Reverse Polarity Protection
- ▶ DIN-Rail and Wall Mount (optional) Support
- ▶ Wide Temperature Range Support: -10° to 60° C
- ▶ 5-Year Warranty

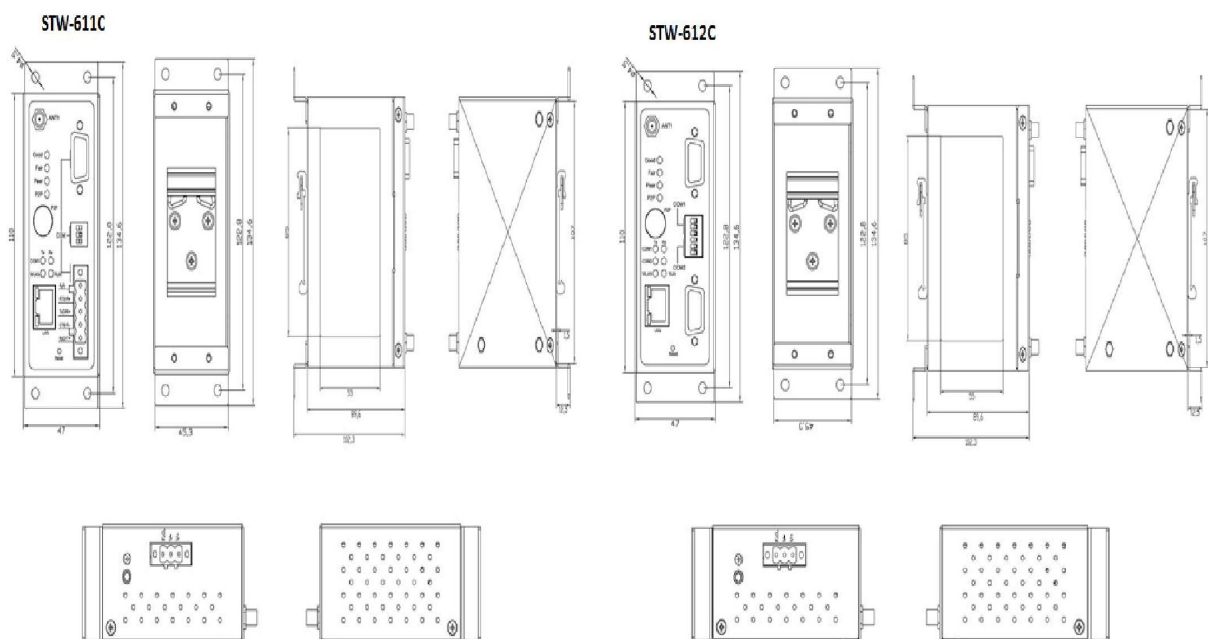
INTRODUCTION

Antaira's new **STW-61xC series** is an Industrial Wireless Serial Device Server with IEEE802.11b/g/n in 2.4GHz band; it provides connectivity to clients and serial devices creating a complete solution for the wireless networking.

Antaira STW-61xC series built-in with the advanced features "Bridge Mod" to allow any Serial and Ethernet Devices to link with the Wireless Network at the same time, in order to perform a "3-ways communication" solution; plus the hassle free "Wi-Fi Direct" Technology easy setup for "Point-to-Point" Application via "Push Button" method without requiring software configuration.

It is an IP30 rated and Compact Rugged Aluminum Case design with Wide Operating Temperature support -10° to 60°C and High EMC protection to meet Industrial Applications requirement.

DIMENSIONS



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SPECIFICATION

Technology		Software	
Radio	United States (FCC) - 2.4GHz	Protocol	IPv4, ICMP, TCP, UDP, DHCP Client, SNMP, SMTP, HTTP, DNS, NTP, RADIUS, RFC2217, WPS, Syslog
Frequency	Europe (ESTI) 2412-2462(20MHz)/2422-2452(40MHz) 2412-2472(20MHz)/2422-2462(40MHz)	Wireless Security	WEP, WPA, WPA2, TKIP, AES, 802.1x
	IEEE 802.11b 1,2,5.5 and 11Mbps	Configuration	Web Console, Serial Manager Utility
	IEEE 802.11g 6,9,12,18,24,36,48,54Mbps	Operation Mode	Virtual COM, TCP/UDP Server/Client, Tunneling.
	IEEE 802.11n	OS Support	Windows / Linux redirection software
Data Rate	20MHz bandwidth: 1Nss: 65Mbps @ 800GI, 72.2Mbps @ 400GI (Max.) 40MHz bandwidth: 1Nss: 135Mbps @ 800GI, 150Mbps @ 400GI (Max.)	Mechanical Characteristics	
	IEEE 802.11b +14dBm	Housing	Metal IP30 rated
	IEEE 802.11g	Dimension	47 x 110 x 90 mm (W x H x D)
	+17dBm @ 6, 9, 12, 18, 24Mbps, +17dBm @ 36Mbps, +16dBm @ 48Mbps, +16dBm @ 54Mbps.	Weight	1.1 lbs. (500g)
	IEEE 802.11n – 2.4GHz/HT20	Wi-Fi Direct Button	Yes
	+16dBm @ MCS 0 +16dBm @ MCS 4 +16dBm @ MCS 1 +16dBm @ MCS 5	Mounting	DIN-Rail; Wall-mount (optional)
	+16dBm @ MCS 2 +16dBm @ MCS 6 +16dBm @ MCS 3 +15dBm @ MCS 7	Power Requirement	
	IEEE 802.11n – 2.4GHz/HT40	Input Voltage	9~48VDC w/ Reverse Polarity Protection
	+15dBm @ MCS 0 +15dBm @ MCS 4 +15dBm @ MCS 1 +15dBm @ MCS 5	Power Connection	5.08mm 3-pin Lockable Terminal Block
	+15dBm @ MCS 2 +15dBm @ MCS 6 +15dBm @ MCS 3 +14dBm @ MCS 7	Power Consumption	5.85 Watts (9VDC@0.65A)
Output Power		Environmental Limits	
		Operating Temperature	-10°C ~ 60°C (14°F ~ 140°F)
		Storage Temperature	-40°C ~ 85°C
Ethernet Interface		Ambient Relative Humidity	5 to 95%, (non-condensing)
Technology	IEEE 802.3, 802.3u	Regulatory Approvals	
Port	1*RJ45	EMC	CE EN 301489-1 V1.8.1, EN301489-17 V2.1.1 (Class A), FCC 15B (Class A)
Speed	10/100Tx	Radio	FCC 15C 15.247, FCC 15E 15.407, EN 301893 V1.5.1, EN 300328 V1.7.1
Wireless Interface		EMF	EN 62311: 2008, EN 50385: 2002, IEC-61000-4-2,4-3,4-4,4-5,4-6,4-8,4-11.
Wireless Module	Atheros AR9382	Shock / Free Fall / Vibration	IEC 60068-2-27 / IEC 60068-2-32 / IEC 60068-2-64
Standard Compliance	IEEE 802.1b/g/n	RoHS II	Yes
Tx / Rx	1T1R MIMO (1 x 1 with MCS 0-7)	MTBF	STW-611C: 205,510 Hours STW-612C: 194,910 Hours
Antenna	2 dBi antenna design, SMA(R) Female connector	Certifications	FCC, CE, UL-60950-1
Serial Interface		Warranty	5 Years
	1-Port RS-232/422/485 with DB9 or TB5 - software selectable (STW-611C)		
	2-Ports RS-232/422/485 with DB9 - software selectable (STW-612C)		
Connector			
Baud Rate	110~921.6Kbps		
Parity	None, Odd, Even, Space, Mark		
Data / Stop Bits	5,6,7,8, / 1,2		
Flow Control	None, Xon / Xoff, RTS/CTS		



RECEIVER SENSITIVITY

Receiver Sensitivity					
	Data Rate	IEEE Spec(1 Rx dBm)		Data Rate	IEEE Spec(1 Rx dBm)
802.11b	1M	not specified	802.11n HT40	MCS0	-79
	5.5M	not specified		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 HT20	MCS0	-82
	48M	-86		MCS1	-79
54M	-65	MCS2		-77	
802.11n HT20	MCS0	-82		MCS3	-74
	MCS1	-79		MCS4	-70
	MCS2	-77	MCS5	-66	
	MCS3	-74	MCS6	-65	
	MCS4	-70	MCS7	-64	
	MCS5	-86	802.11b/g/n HT40	MCS0	-79
	MCS6	-65		MCS1	-76
	MCS7	-64		MCS2	-74
		MCS3		-71	
		MCS4		-67	
		MCS5		-63	
		MCS6		-62	
		MCS7	-61		

ORDERING INFO

STW-611C 1-Port (RS232/422/485) Industrial IEEE802.11b/g/n Wireless Serial Device Server, w/Bridge Mode

STW-612C 2-Port (RS232/422/485) Industrial IEEE802.11b/g/n Wireless Serial Device Server, w/Bridge Mode

Optional Accessories

PARANI-DAT5R Dipole Antenna, SMA Female-Right Hand Thread, 5dBi

PA-STX-US Power Adapter (US Plug) – Input: 100~240VAC 50/60Hz 0.4A; Output: 12VDC 1.25A

PA-STX-EU Power Adapter (EU Plug) – Input: 100~240VAC 50/60Hz 0.4A; Output: 12VDC 1.25A

MDR-10-24 10W Industrial Single Output Miniature DIN Rail Power Supply (12VDC)

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Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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