



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

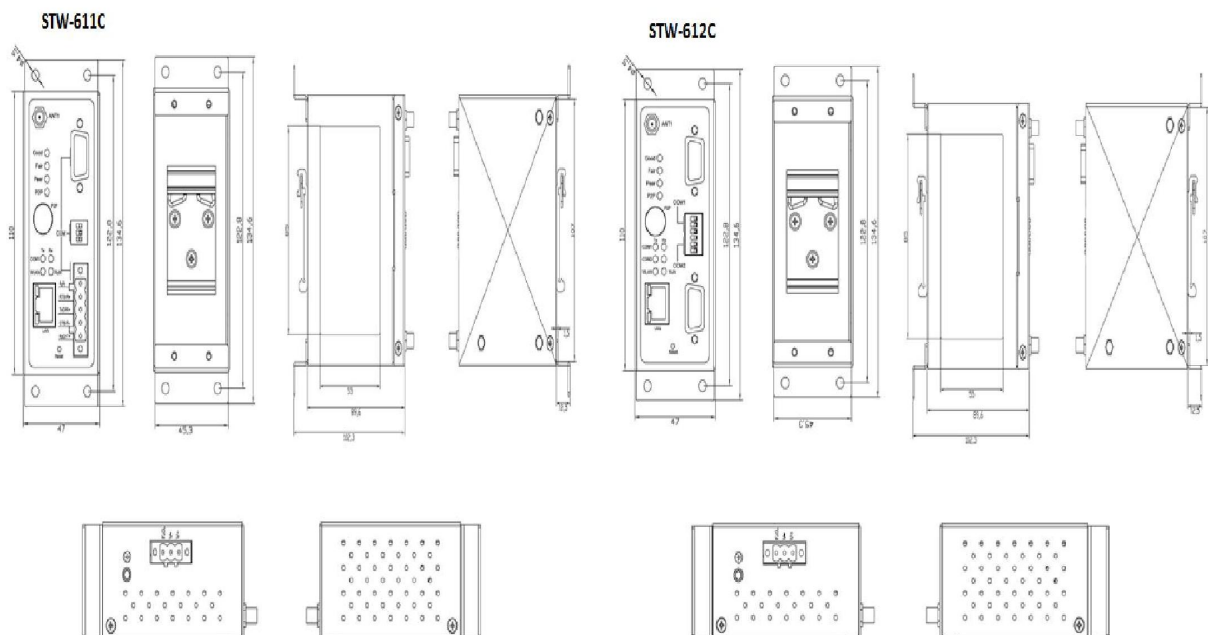
INTRODUCTION

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 Frequency	United States (FCC) - 2.4GHz	Protocol	IPv4, ICMP, TCP, UDP, DHCP Client, SNMP, SMTP, HTTP, DNS, NTP, RADIUS, RFC2217, WPS, Syslog
	Europe (ETSI)		
Data Rate	2412-2462(20Mhz)/2422-2452(40Mhz)	Wireless Security	WEP, WPA, WPA2, TKIP, AES, 802.1x
	2412-2472(20Mhz)/2422-2462(40Mhz)		Web Console, Serial Manager Utility
Output Power	IEEE 802.11b 1,2,5.5 and 11Mbps	Operation Mode	Virtual COM, TCP/UDP Server/Client, Tunneling.
	IEEE 802.11g 6,9,12,18,24,36,48,54Mbps		
Ethernet Interface	IEEE 802.11n	OS Support	Windows / Linux redirection software
	20MHz bandwidth: 1Nss: 65Mbps @ 800GI, 72.2Mbps @ 400GI (Max.)		
Wireless Interface	40MHz bandwidth: 1Nss: 135Mbps @ 800GI, 150Mbps @ 400GI (Max.)	Mechanical Characteristics	
	IEEE 802.11b +14dBm	Housing	Metal IP30 rated
Serial Interface	IEEE 802.11g		Dimension
	+17dBm @ 6, 9, 12,18,24Mbps, +17dBm @ 36Mbps, +16dBm @ 48Mbps, +16dBm @ 54Mbps.	Weight	47 x 110 x 90 mm (W x H x D)
Antenna	IEEE 802.11n – 2.4GHz/HT20		1.1 lbs. (500g)
	+16dBm @ MCS 0 +16dBm @ MCS 4 +16dBm @ MCS 1 +16dBm @ MCS 5	Wi-Fi Direct Button	Yes
Connector	+16dBm @ MCS 2 +16dBm @ MCS 6 +16dBm @ MCS 3 +15dBm @ MCS 7		Mounting
	IEEE 802.11n – 2.4GHz/HT40	Power Requirement	DIN-Rail; Wall-mount (optional)
Baud Rate	+15dBm @ MCS 0 +15dBm @ MCS 4 +15dBm @ MCS 1 +15dBm @ MCS 5		Input Voltage
	+15dBm @ MCS 2 +15dBm @ MCS 6 +15dBm @ MCS 3 +14dBm @ MCS 7	Power Connection	9~48VDC w/ Reverse Polarity Protection
Parity			Power Consumption
		Environmental Limits	5.85 Watts (9VDC@0.65A)
Data / Stop Bits			Operating Temperature
		Regulatory Approvals	-10°C ~ 60°C (14°F ~ 140°F)
Flow Control			Storage Temperature
		EMC	-40°C ~ 85°C
Connector			Ambient Relative Humidity
		Radio	5 to 95%, (non-condensing)
Baud Rate			1-Port RS-232/422/485 with DB9 or TB5 - software selectable (STW-611C)
		EMF	2-Ports RS-232/422/485 with DB9 - software selectable (STW-612C)
Parity			FCC 15C 15.247, FCC 15E 15.407, EN 301893 V1.5.1, EN 300328 V1.7.1
		Shock / Free Fall / Vibration	EN 62311: 2008, EN 50385: 2002, IEC-61000-4-2,4-3,4-4,4-5,4-6,4-8,4-11.
Data / Stop Bits			IEC 60068-2-27 / IEC 60068-2-32 / IEC 60068-2-64
		RoHS II	Yes
Flow Control			MTBF
		Certifications	STW-611C: 205,510 Hours
Connector			STW-612C: 194,910 Hours
		Warranty	FCC, CE, UL-60950-1
Baud Rate			5 Years
		Parity	
Data / Stop Bits			
		Flow Control	



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	-66		MCS1	-79
802.11n HT20	54M	-65		MCS2	-77
	MCS0	-82		MCS3	-74
	MCS1	-79		MCS4	-70
	MCS2	-77		MCS5	-66
	MCS3	-74		MCS6	-65
	MCS4	-70		MCS7	-64
	MCS5	-66	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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