



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

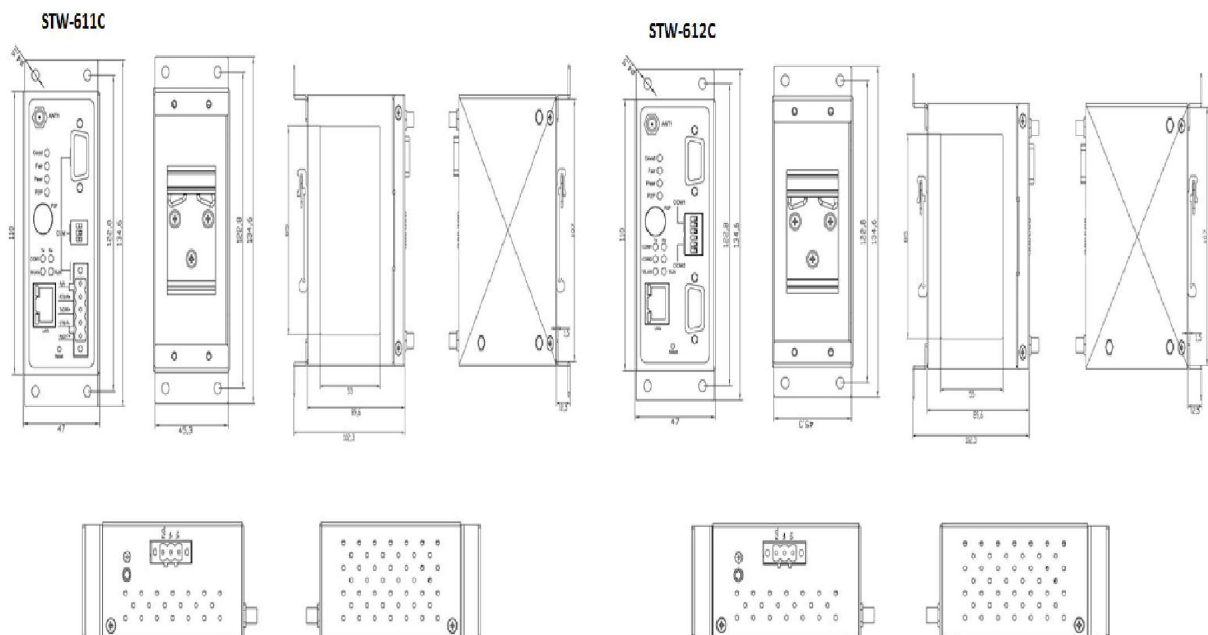
INTRODUCTION

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	
Radio Frequency	United States (FCC) - 2.4GHz
	Europe (ETSI)
	2412-2462(20Mhz)/2422-2452(40Mhz) 2412-2472(20Mhz)/2422-2462(40Mhz)
Data Rate	IEEE 802.11b 1,2,5.5 and 11Mbps
	IEEE 802.11g 6,9,12,18,24,36,48,54Mbps
	IEEE 802.11n
Output Power	20MHz bandwidth: 1Nss: 65Mbps @ 800GI, 72.2Mbps @ 400GI (Max.)
	40MHz bandwidth: 1Nss: 135Mbps @ 800GI, 150Mbps @ 400GI (Max.)
	IEEE 802.11b +14dBm
Ethernet Interface	IEEE 802.11g
	+17dBm @ 6, 9, 12,18,24Mbps, +17dBm @ 36Mbps, +16dBm @ 48Mbps, +16dBm @ 54Mbps.
	IEEE 802.11n – 2.4GHz/HT20
Wireless Interface	+16dBm @ MCS 0 +16dBm @ MCS 4 +16dBm @ MCS 1 +16dBm @ MCS 5
	+16dBm @ MCS 2 +16dBm @ MCS 6 +16dBm @ MCS 3 +15dBm @ MCS 7
	IEEE 802.11n – 2.4GHz/HT40
Serial Interface	+15dBm @ MCS 0 +15dBm @ MCS 4 +15dBm @ MCS 1 +15dBm @ MCS 5
	+15dBm @ MCS 2 +15dBm @ MCS 6 +15dBm @ MCS 3 +14dBm @ MCS 7
Software	
Protocol	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	Web Console, Serial Manager Utility
Operation Mode	Virtual COM, TCP/UDP Server/Client, Tunneling.
OS Support	Windows / Linux redirection software
Mechanical Characteristics	
Housing	Metal IP30 rated
Dimension	47 x 110 x 90 mm (W x H x D)
Weight	1.1 lbs. (500g)
Wi-Fi Direct Button	Yes
Mounting	DIN-Rail; Wall-mount (optional)
Power Requirement	
Input Voltage	9~48VDC w/ Reverse Polarity Protection
Power Connection	5.08mm 3-pin Lockable Terminal Block
Power Consumption	5.85 Watts (9VDC@0.65A)
Environmental Limits	
Operating Temperature	-10°C ~ 60°C (14°F ~ 140°F)
Storage Temperature	-40°C ~ 85°C
Ambient Relative Humidity	5 to 95%, (non-condensing)
Regulatory Approvals	
EMC	CE EN 301489-1 V1.8.1, EN301489-17 V2.1.1 (Class A), FCC 15B (Class A)
Radio	FCC 15C 15.247, FCC 15E 15.407, EN 301893 V1.5.1, EN 300328 V1.7.1
EMF	EN 62311: 2008, EN 50385: 2002, IEC-61000-4-2,4-3,4-4,4-5,4-6,4-8,4-11.
Shock / Free Fall / Vibration	IEC 60068-2-27 / IEC 60068-2-32 / IEC 60068-2-64
RoHS II	Yes
MTBF	STW-611C: 205,510 Hours STW-612C: 194,910 Hours
Certifications	FCC, CE, UL-60950-1
Warranty	5 Years

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	802.11b/g/n HT40	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 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)

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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