



Antaira Technologies, LLC

Industrial Wireless Device Server
STW-611C & STW-612C Series

Hardware Installation Guide
Version 1.1
Updated December 2014



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Package Check List

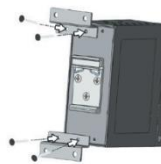
The package includes the following items:

- Industrial Wireless Serial Device Server (STW-61xC)* 1
- 3dBi Antenna * 1
- 3-Pin 5.08mm Power Terminal Block *1
- 5-Pin 5.08mm Serial Port Terminal Block (STW-611C)* 1
- Mounted DIN-Rail Bracket * 1
- Hardware Installation Guide * 1
- Product CD Software * 1

Installation Overview

1. Wall Mounting

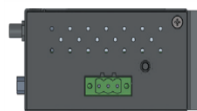
Place the wall mount kit and screws on the back of the device as shown in Fig.1.



(Fig. 1)

2. Grounding

On the top of the device (as shown in Fig.2) – Choose a terminal within the power terminal block for frame ground; or connect the wire to the grounding screw next to the power terminal block.



(Fig. 2)

(Grounding is required to be connected all the times, after installation)

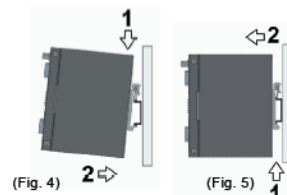
3. Install Antenna

Install the antenna to the female RP-SMA connector – as shown in Fig.3.



4. DIN-Rail Mounting

Follow Fig.4 to install the device with DIN-Rail, and follow Fig.5 to remove device from DIN-Rail.

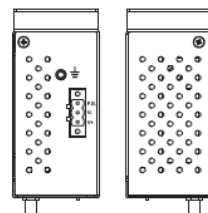


(Fig. 4)

(Fig. 5)

5. Ethernet Connection

Connect the device to a LAN (Switch or PC) by using an Ethernet cable to the device's RJ45 port.



(Fig. 6)

Notes

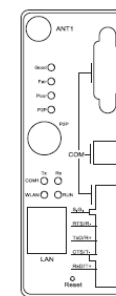
The opening holes on the sides of the device are for the device's heat dissipation; please do not block or cover them with any objects.

Device Dimensions, Physical Appearance, and Mounting

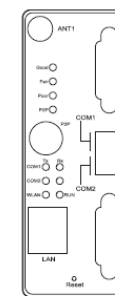
• Environmental Limitations

Please make sure the STW-61xC unit is installed in a dry location, free from dirt and corrosive vapors – for more details; please refer to the user manual.

Front View



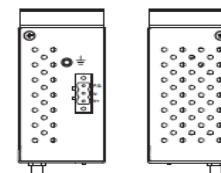
STW-611C



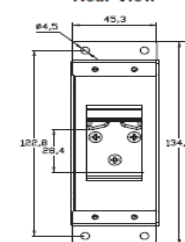
STW-612C

• Unit Dimensions and Layout (unit = mm)

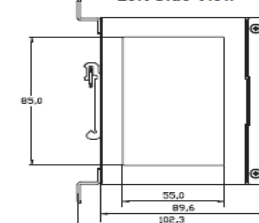
Top and Bottom View



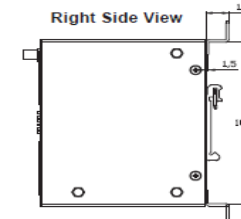
Rear View



Left Side View

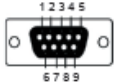


Right Side View



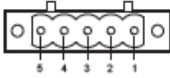
Pin Assignments

9-Pin D-sub Connector for RS-232/422/485



Pin	RS-232	RS-422 / 4-Wire RS485 (Full Duplex)	RS-485 / 2-Wire RS485 (Half Duplex)
1	DCD	N/A	N/A
2	RXD	TXD+	N/A
3	TXD	RXD+	DATA+
4	DTR	N/A	N/A
5	SG	SG	SG
6	DSR	N/A	N/A
7	RTS	RXD-	DATA-
8	CTS	TXD-	N/A
9	RI	N/A	N/A

5-Pin Terminal Block for RS232/422/485



Pin	RS-232	RS-422 / 4-Wire RS485 (Full Duplex)	RS-485 / 2-Wire RS485 (Half Duplex)
1	SG	SG	SG
2	RTS	R-	DATA-
3	TxD	R+	DATA+
4	CTS	T-	N/A
5	RxD	T+	N/A

P2P Button

Pressing seconds	1~3(s)	4~7(s)	8~(s)
Working mode	Restart connection	AP	AP client

DIP Switch STW-611C

COM	Dip	Function	SW	Ω
COM 1	3	Pull High	On	1K
			Off	100K
	2	Pull Low	On	1K
			Off	100K
	1	Termination	On	120
			Off	N/A

STW-612C

COM	Dip	Function	SW	Ω
COM 1	6	Pull High	On	1K
			Off	100K
	5	Pull Low	On	1K
			Off	100K
	4	Termination	On	120
			Off	N/A
COM 1	3	Pull High	On	1K
			Off	100K
	2	Pull Low	On	1K
			Off	100K
	1	Termination	On	120
			Off	N/A

LED Indicators

Name	Color	Status	Description
COM	Green	Blinking	Data transmitting on the serial port
		Off	Data is not transmitting on the serial port
LAN	Orange	Blinking	Data is transmitting on Ethernet
		On	Ethernet is connected on 100Mbps
		Off	Ethernet is disconnected on 100Mbps
	Green	Blinking	Data is transmitting on Ethernet
		On	Ethernet is connected on 10Mbps
		Off	Ethernet is disconnected on 10Mbps
WLAN	Green	On	Wireless Radio is enabled
		Blinking	Wireless Radio is enabled and data is transmitting
		Off	Wireless Radio is disabled
RUN	Green	Off	System is not powered on
		Blinking Steadily	AP firmware is running normally
		Blinking Rapidly	AP firmware is not running
P2P	Orange	On	WPS connected
		Blinking	WPS is connecting at Wi-Fi Direct Go mode
	Green	On	WPS connected
		Blinking	WPS is connecting at client mode

Signal LEDs

○ off ● on ☀ blinking

Operations	Poor	Fair	Good
Connecting	Searching for an AP	☀	☀
	Cannot connected to the AP	☀	
	No IP provided by the DHCP Server	☀	☀
Connected	Poor Signal Strength(30%)	●	
	Fair Signal Strength(31-60%)	●	●
	Good Signal Strength(61-100%)	●	●

Device Settings

STW-611C provides 1 serial port connection, please select either 1*DB9 (M), or 1*5-pin terminal block.
STW-612C provides 2 serial port connections, and they are both DB9 (M) for RS232/422/485.

STW-61xC series comes with factory default IP address: 10.0.50.100

- **By Web Console:** Users can access or configure the device by its built-in web console once it is connected to a physical network.
- **By Utility Software:** "Serial Manager" utility software is included with the product CD. Please refer to the user manual for details regarding serial manager configurations.

Before configuring the device, please make sure the connected PC has the same subnet setting as the device. For details, please refer to the user manual.

Field Maintenance and Service

- If the device requires servicing of any kind, please disconnect and remove the device from its mounting.
- Voltage/power lines should be properly insulated as well as other cables.
- Do not under any circumstance insert foreign objects into the heat dissipation holes located in the different faces of the device.
- Please do not open the device for any reason.
- Please contact Antaira for any repairs or follow the instructions found in the user manual.

Antaira Customer Services and Supports

- Antaira's Technical Service & Support Centers:
 + 844-268-2472 (Antaira US Headquarter)
 + 48-22-862-88-81 (Antaira Europe Office)
 + 886-2-2218-9733 (Antaira Asia Office)
- Antaira's Web Sites & Repair/Support Emails:
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*Any changes will be announced on the Antaira website.