



DW-DS1101 User Guide v1.0



DW-DS1101 User guide.

DW-DS1101 Device Server Description -

The DW-DS1101 is an Ethernet-to-RS232 converter or Device Server that is manufactured by Tibbo Technology Inc. for DSPW. DSPW units run a custom version of firmware and are tested with the appropriate end user equipment. e.g. if you have purchased a DW-DS1101 that is configured for the Stewart Audio AV25-2-RS232, the DW-DS1101 that is shipped to you will have been tested with the Stewart Amp.

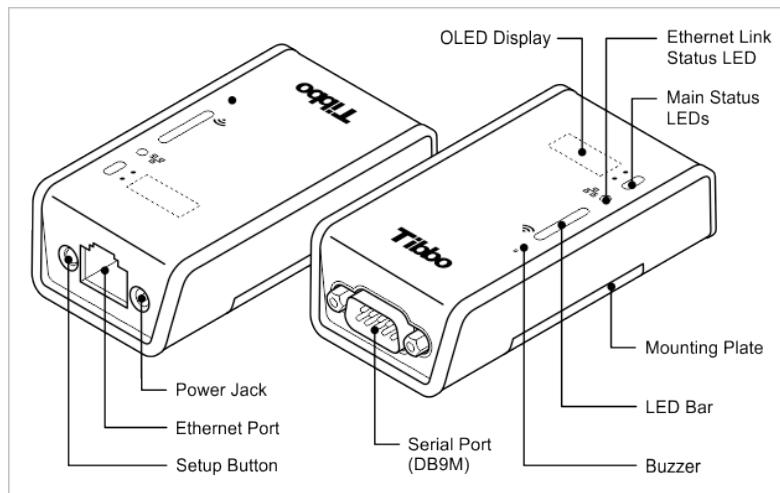
DW-DS1101 has one 10/100 BaseT RG45 connector, one DB9 connector with signals mapped to 3 TxRx RS232 ports, and optional WiFi.

Indicators -

DW-DS1101 has **green** and **yellow** Ethernet status LEDs. Ethernet status LEDs indicate the following:

- Link/Data LED (green) is turned on when "live" Ethernet cable is plugged into the device. The LED blinks whenever an Ethernet packet is received.
- 100BaseT LED (yellow) is turned on when the device links with the hub at 100Mb. The LED is off when the link is established at 10Mb.

If optional WiFi is installed then there are 5 Blue LEDs that indicate WiFi Rx signal strength.



OLED Display –

The 96x32 monochrome OLED display is used to display system status information. The display will be on during power-up initialization and then will turn off to preserve display lifespan. To turn on again, press the Setup Button to see the IP number setting. Press the Setup button again to cycle thru the system setup info screens.

Power Connector-

The power jack accepts power connectors with 3.5mm diameter. To maintain your warranty you must use a power adaptor supplied by DSPW. DSPW power adaptor provides 12VDC nominal output voltage, current 500mA.

On the power jack, the ground is "on the outside", as shown on the figure below.



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Setup/ status button -

The Setup/ Status Button has multiple uses depending on the state of the DW-DS1101.

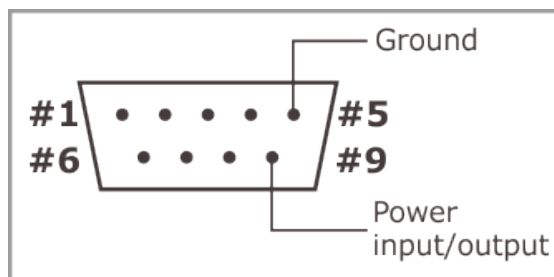
- Normal operation – Used to turn on the OLED display and cycle thru the system setup info screens.
- Firmware upgrade – see firmware upgrade manual.

RS232 Port -

The DW-DS1101 features a multi-channel RS232 port. Physically, the port is implemented as a single DB9M connector with three output lines, three input lines, and the ground.

Internally, the DW-DS1101 has three independent serial ports. Each serial port is mapped to an IP PORT. These are the Network PORT numbers that the SA-232D App uses to communicate to the DW-DS1101 serial ports (see "SA-232D User Manual").

Each of the three ports has its own TX and RX lines. These lines are implemented in hardware and can't be "remapped". The following table shows how the RX and TX lines are connected to the DB9M:



Pin	Signal	IP PORT (default)
1	Do Not Connect	
2	Rx1 (input)	40801
3	Tx1 (output)	40801
4	Tx3 (output)	40803
5	Ground	
6	Rx3 (input)	40803
7	Tx2 (output)	40802
8	Rx2 (input)	40802
9	Do Not Connect	

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Ethernet Port -

The DW-DS1101 Ethernet port is a standard 10/100 BaseT type connector. It can be configured to have PoE capability. Consult DSPW support for more information on PoE.



Pin	Signal
1	Tx +
2	Tx -
3	Rx +
4	PoE +
5	PoE +
6	Rx -
7	PoE -
8	PoE -

Configure your Ethernet-to-RS232 adapter -

The DS1101 has a built in Web server for setup and configuration or you can use the DSPW PC setup and discovery tool.

DW-DS1101 default IP address is 192.168.123

PC setup and discovery tool can be downloaded from the DSPW website.

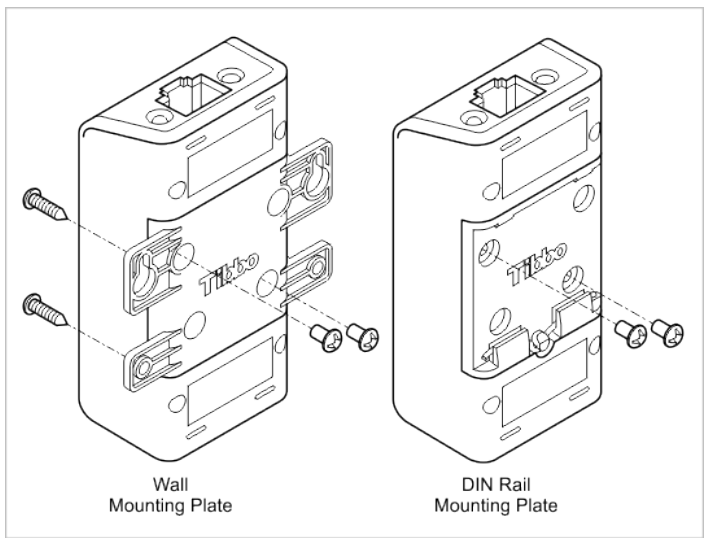
- Setup
- Configuration
- Discovery
- Reset to default settings
- Upload new Firmware

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DIN Rail and Wall Mounting Plates -

Every DS110x device is shipped with two mounting plates -- one for the installation on a DIN rail, and one for mounting on the wall.

Both plates are secured onto the device using two supplied screws.



Wall mounting plate can be used to affix the DS110x to a wall in a semi-permanent or permanent manner. The diagram below shows important dimensions. (Not to Scale).

