



AWF1

TTL to WIFI

Gateway



Manual

Code : ISTR_M_AWF1_E_01_--

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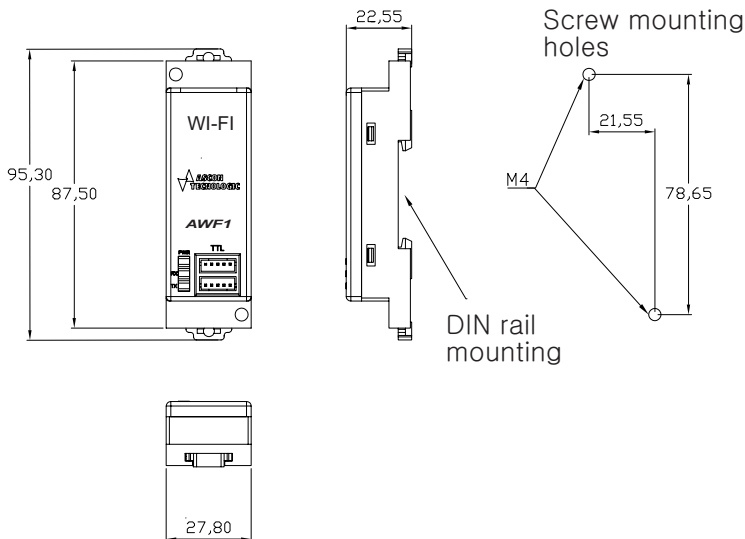
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1. OUTLINE DIMENSIONS (mm)

1.1 DIMENSIONS



1.2 MOUNTING REQUIREMENTS

This instrument is intended for permanent installation, for indoor use only, in an electrical panel which encloses the rear housing, exposed terminals and wiring on the back. Select a mounting location having the following characteristics:

1. It should be easily accessible;
2. There is minimum vibrations and no impact;
3. There are no corrosive gases;
4. There are no water or other fluids (i.e. condensation);

5. The ambient temperature is in accordance with the operative temperature (0... 50°C);
6. The relative humidity is in accordance with the instrument specifications (20... 85%);

2. CONNECTION DIAGRAM

2.1 GENERAL NOTES ABOUT WIRING

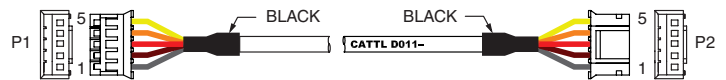
1. Do not run TTL or Ethernet wires together with power cables.

2.2 TTL CONNECTION

2.2.1 Cable identification

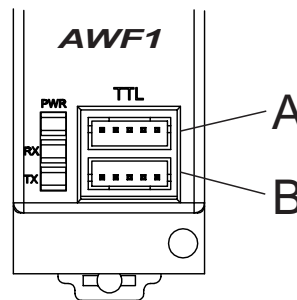
Cable models: CATTL D020

Identification: Both side with a black tube



3. HOW TO PROCEED

- 1) Connect the CATTL to the instrument that you desire to connect to ethernet
- 2) Power ON the instrument
- 3) Plug the second side of the CATTL into connector B



If the PWR LED lite ON the connection is correct otherwise disconnect the CATTL from connection B and insert it into connection A.

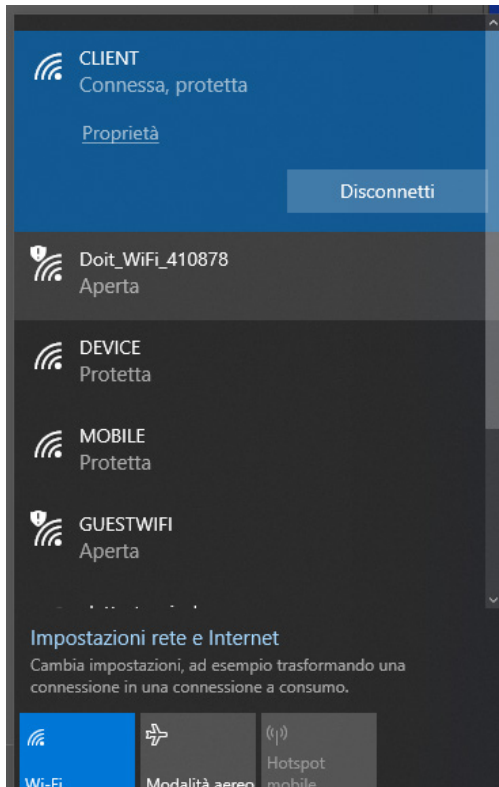
The PWR LED will lite ON.

4. HOW TO CONFIGURE THE AWF1

Web configuration

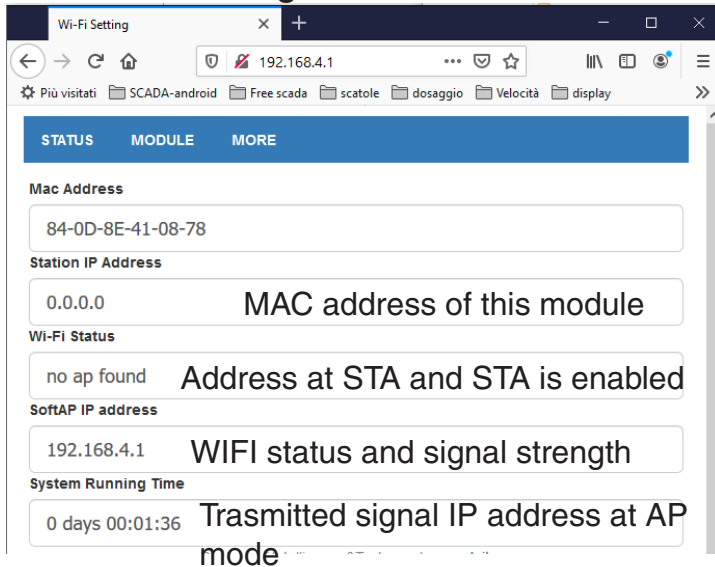
This module is already built-in the HTTP Server. Thus, you can configure the parameters by the browsers on pc or mobile phone or other smart devices, without of need of any other tools or Apps. In the factory settings, the module works at AP mode, and the signal is "Doit_WiFi_xxxxxx", where, "xxxxxx" is the last 6 number of MAC address of this module. Then, one can connect this WiFi hotspot by PCs or phones or other smart devoices (supportable Android and Ios, Windows) with no password.

Open the WIFI connection program of your PC.



After a successful connection, open your browser and input the default IP of the module: **192.168.4.1**

Status - sub-configuration



On the STATUS page, it displays much information, e.g., MAC address, IP address at STA mode, WiFi connection status, IP address at AP mode, and the run time, where “Wi-Fi Status”: its value can be “idle”, “connecting”, “wrong password”, “no ap found”, “connect failed”, “connected (rssi:xxx)”. If STA is connected successfully, it would display the signal strength (i.e., RSSI value, it is a negative). “System Running Time”: display the run time for the device.

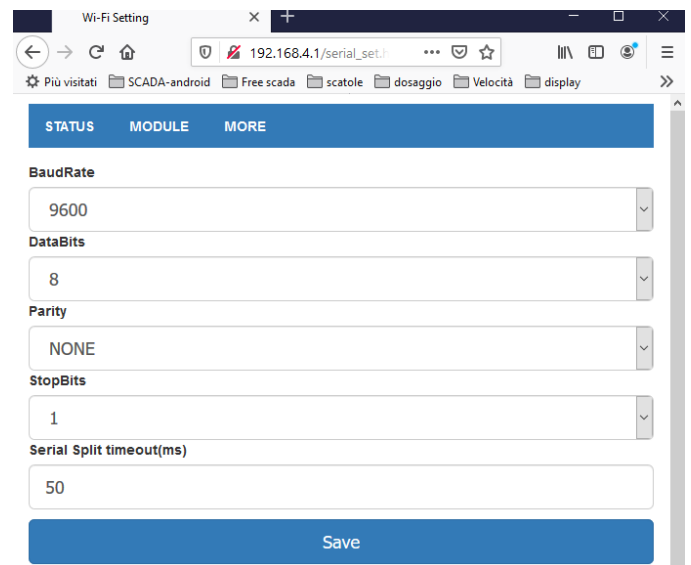
MODULE configuration page

“MODULE” page has 3 sub-menus, which can provide many configurations.

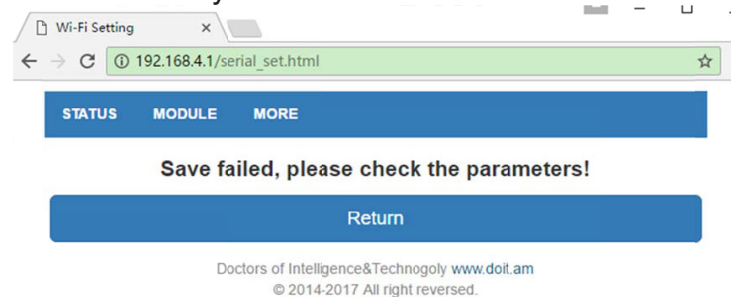
Serial (serial configuration)

In this page one can set the serial baud rate, data bits, parity checking, stopbits etc. At the same, one can set the package subextract time

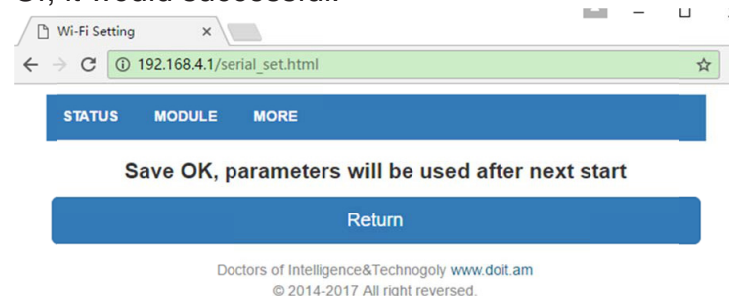
- Set serial baud : rate:300/600/1200/2400/4800/9600/19200/38400/57600/74800/115200/230400/460800/921600/1843200/3686400
- Data bit: 5/6/7/8
- Parity checking: NONE/ODD/EVEN
- Stopbits: 1/1.5/2



After setting, can use “Save ” to save the setting. If there are some errors for the parameters, it would remind you a failure.



Or, it would successful.



When the setting is successful, the parameters are enable after reboot the WiFi module.

In the later, the web sets are similar, this manual would be ignored

WiFi (WiFi configuration)

Set AWF1 in STA modes.

Note: WiFi password needs 8~63 characters

The screenshot shows a web browser window with the URL 192.168.4.1/wifi_set.ht. The page has a navigation bar with 'STATUS', 'MODULE', and 'MORE' tabs. The 'Soft AP Settings' section is active, showing fields for SSID Name (Doit_WiFi), Password (8-63 ASCII chars or spaces), SoftAP IP (192.168.4.1), SoftAP netmask (255.255.255.0), and SoftAP gateway (192.168.4.1). The 'Station Settings' section is partially visible below, showing fields for Assign IP address (192.168.1.1), Assign Netmask (255.255.255.0), and Assign Gateway (192.168.1.1). A 'Save' button is at the bottom of the Station Settings section.

STA setting

When open the WiFi configuration page, the WiFi module would scan the WiFi hotspot listed in the table block.

Set the SSID and Password for the wireless router. Whether status DHCP, if yes, then IP, netmask, gateway address cannot be assigned. Or it need to be assigned.

NOTE: At AP mode the IP, Sub-network mask and gateway address must be not the same network duration from those at STA mode. For example, at AP mode, if IP is 192.168.4.1, then the IP at SAT cannot be 192.168.4.XX

The screenshot shows the 'Station Settings' section of the WiFi configuration web interface. It includes a radio button to 'Enable' or 'Disable' the station. Fields for SSID name (Wireless_Router), SSID list (dropdown), Password (Wireless Router Password), and Assign IP address (192.168.1.1) are visible. Below these are fields for Assign Netmask (255.255.255.0) and Assign Gateway (192.168.1.1). A 'Save' button is at the bottom. A status bar at the bottom indicates 'In attesa di 192.168.4.1...'.

Network configuration

In the network configuration set the Socket Type as "TCP server".

Do not modify the other parameter.

Press the "Save" button

Turn OFF the power supply of the AWF1.
Turn ON the power supply.

