

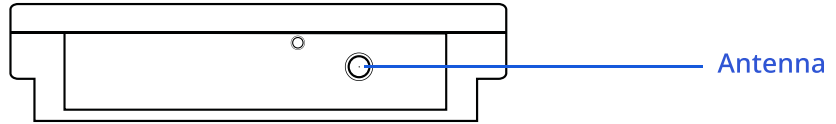
# ST-53

WiFi Gateway

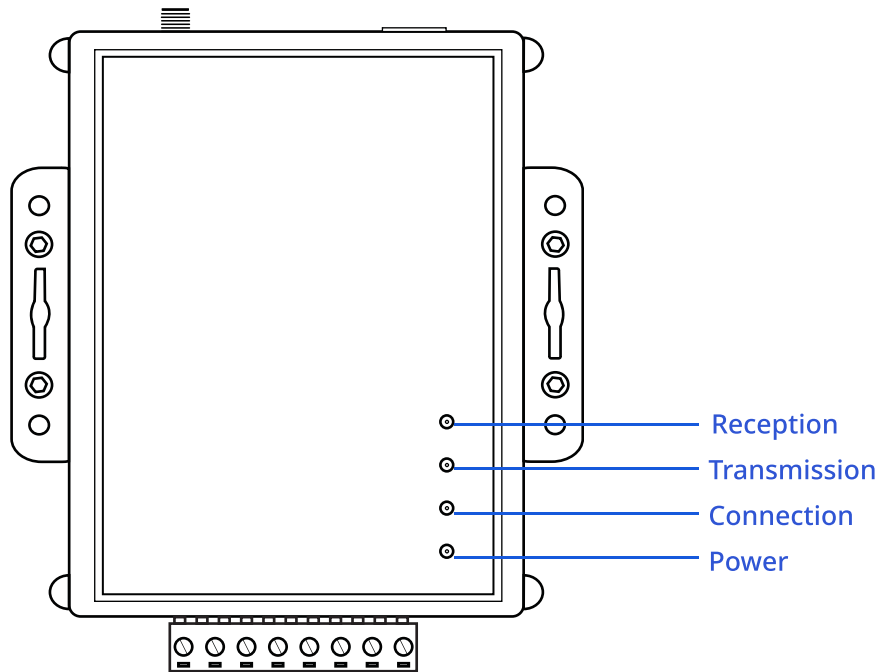


# HARDWARE

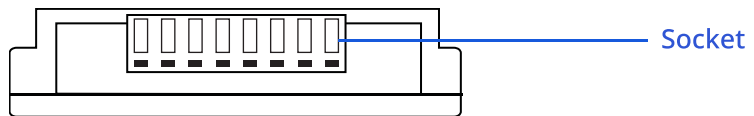
Back View



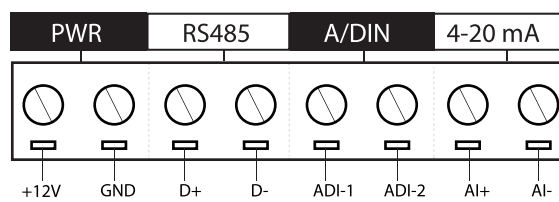
Top View



Front View



Socket Input (Top View)



## FEATURES

### NETWORK

Interface	Single Stream in 2.4 GHz ISM band
Network protocols	DHCP, DNS, TCP/IP (IPv4), UDP, HTTP, HTTPS
Security	IEEE 802.11 WEP, WPA, WPA2 security
Output Power	18.5dBm (802.11b 11Mbps)
Connection monitoring	Periodic Reboot, Power Failure, Input/ Output On/Off, Slave Fail
DHCP	Static and dynamic IP allocation

### MODBUS

Modbus protocol	Modbus RTU Master
Baud Rate	400, 4800, 9600, 19200, 38400, 57600, 115200 bps
Data Bits	7, 8
Parity	None, Odd, Even
Stop Bit	0, 1, 2
Index Count	32 Index
Word Count per Index	100
Gateway Configuration	Web Config, Serial Utility, IP Commands

### DATA TO SERVER

Protocol	Configurable TCP, HTTP, MQTT
Protocol Format	Configurable JSON/CSV Format

### SYSTEM CHARACTERISTICS

CPU	ARM® CortexTM-M0Standard operating frequency up to 32 MHz
DataBackup	~5 Days @ 30 seconds interval

## PHYSICAL INTERFACES (PORTS, LEDS, ANTENNA, BUTTONS)

I/Os	1 Channel (0 to 24V) Power Supply 1 Channel (0 to 24V) Modbus RS-485 2 Channel (0 to 24V) Analog / Digital Input 1 Channel (4 to 20mA) Current Input
Serial Programming Interface	USB to DB9 Connector / Device Configuration via Utility
Status LEDs	1x Power LED, 1 x IP LED, 2 x Modbus Communication Status.
Power	12V to 24V DC (Reverse Polarity Protection)
RS485 Port	upto 32 Modbus Slave Device Connection
Antenna	1 x SMA for WiFi Connectivity

## PHYSICAL SPECIFICATION

Casing material	Plastic Polymer
Dimensions (W x H x D)	100mm x 90mm x 25mm ( L x W x H )
Weight	160 grams
Mounting options	Wall Mount, Flat surface, Bottom DIN rail

## OPERATING ENVIRONMENT

Operating Voltage	12V - 24V DC
Supply Current	40 mA @12V DC (~0.5W - Idle), (~1.7W - Transmission)
Operating temperature	Operating: -30C to +85C
Ingress Protection Rating	IP60

## What's in the box ?

### Standard package contain

- ST-53 (WiFi Gateway)
- 24 W Adapter
- 1 X LTE Antenna (Magnetic Mount, SMA Male, 3 M Cable)
- QSG (Quick Start Guide)
- Packaging Box



ST-53



24 W Adapter

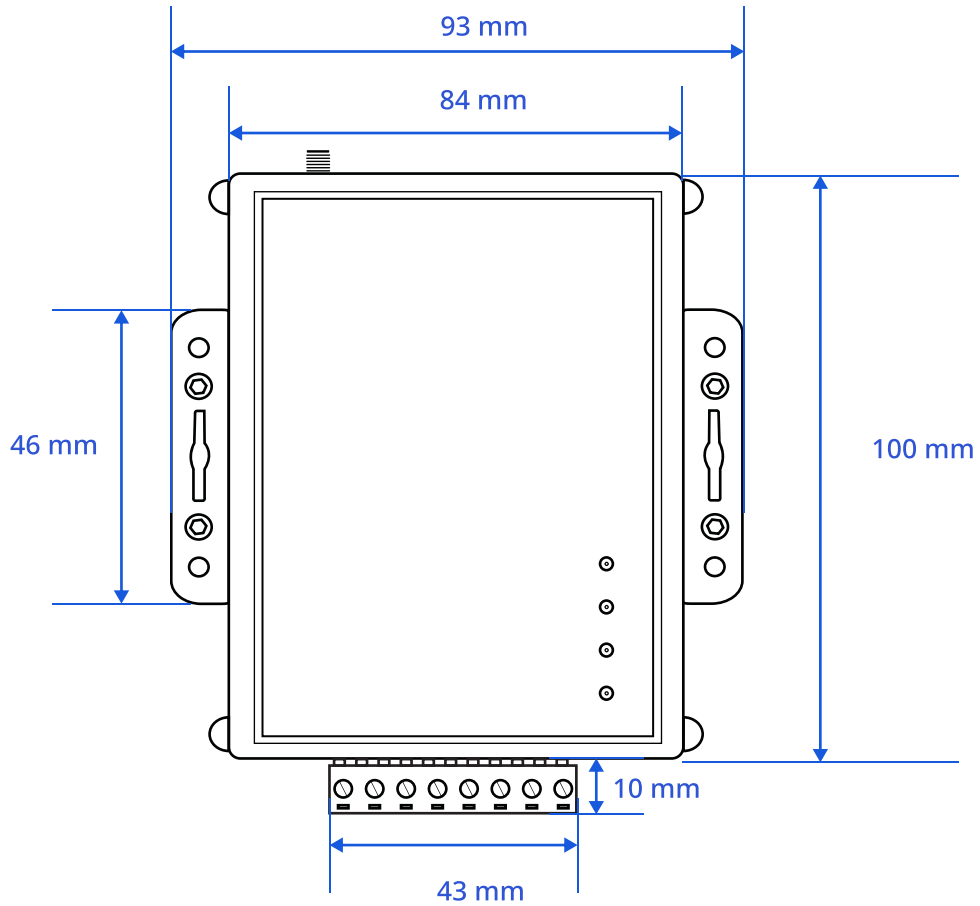


1 X LTE Antenna (Magnetic Mount, SMA Male, 3 M Cable)

## ST-53 MEASUREMENTS

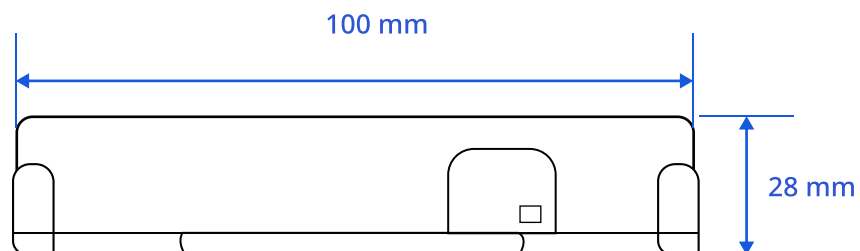
### TOP VIEW

The figure below depicts the measurements of ST-53 and its components as seen from the top:



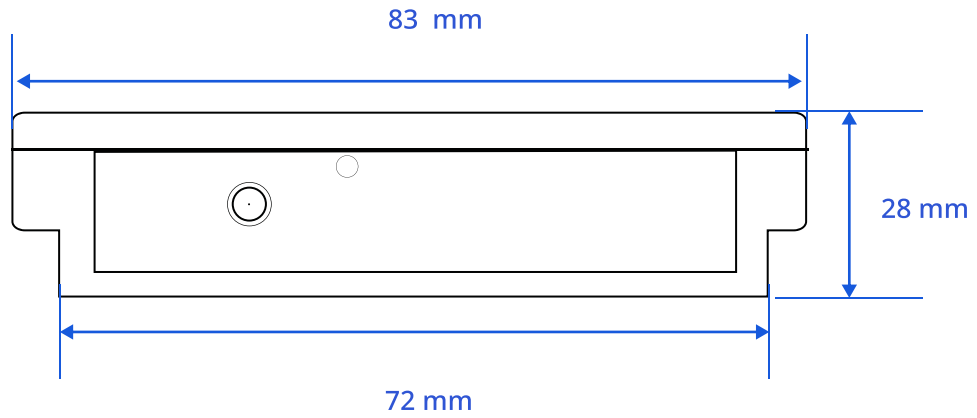
### RIGHT VIEW

The figure below depicts the measurements of ST-53 and its components as seen from the right side



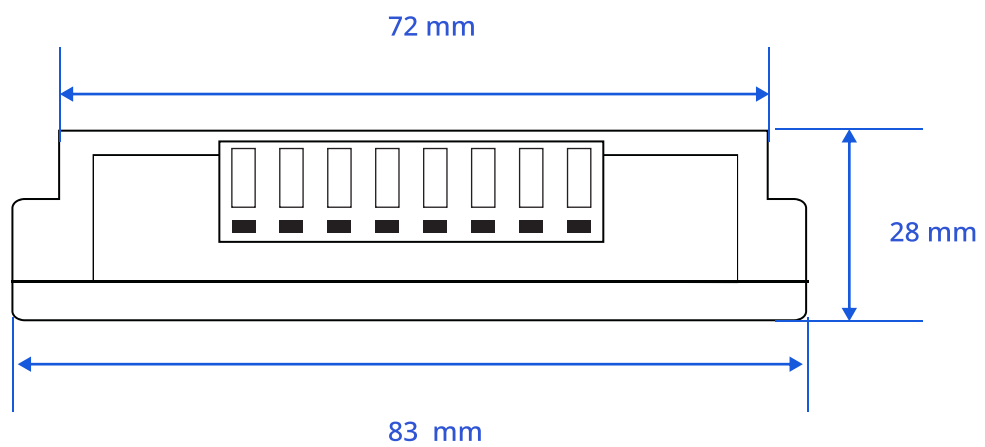
### REAR VIEW

The figure below depicts the measurements of ST-53 and its components as seen from the back:



### FRONT VIEW

The figure below depicts the measurements of ST-53 and its components as seen from the front:



## Get in touch with us !

---

[www.faclon.com](http://www.faclon.com) | [support@faclon.com](mailto:support@faclon.com)

NOTE - We pursue a policy of continuous research and development.  
Specifications and features are subject to change without notice

