

Gill IoT Gateway

Connects with Gill IoT Platform for remote sensor monitoring

The Gill IoT Gateway connects compatible Gill sensors with the Gill IoT Platform

Quickstart Guide

5090-PK-026
5090-PK-036
5090-PK-037
5090-PK-326



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Thanks

Thank you for purchasing the Gill IoT Gateway. This device connects compatible Gill sensors with the Gill IoT Platform. The following guidance will allow initial setup after which Gill recommends downloading the full user manual available at gill.group/iot.

Visit gill.group/iot to receive the most up to date information about the platform and to access the list of compatible products.

Note: Please only begin installation if you have already completed the Gill IoT Platform organisation registration form at gill.group/iot and received a confirmation email that your organisation's account is active.

What's in the box

5090-PK-026 (BASE KIT)

1x Gill IoT Gateway
2x 2.4GHz / 5GHz Wi-Fi antennae
1x 6-way terminal plug
1x 20-way terminal plug
1x Power supply unit

5090-PK-037 (GATEWAY ACC DC ADAPTOR)

1x DC terminal block adaptor

5090-PK-326 (w/ MOUNT & DC ADAPTOR)

Items from 5090-PK-026
Items from 5090-PK-036
Items from 5090-PK-037

5090-PK-036 (GATEWAY ACC MOUNT)

1x Wall/VESA mounting plate
1x DIN rail mounting adapter
4x M3, 4mm CSK screws
4x M4, 10mm pan-head screws
2x M3 standoffs
2x M3 nylon flat washers
2x M3 nuts
2 x M3, 5mm pan-head screw

What's required (All Models)

- Ethernet cable
- Ethernet port with internet access
- Power source (100–240 VAC / 50–60 Hz for PSU, 8–36 VDC / 1 A for DC terminal block adaptor).
- Gill sensor compatible with Gill IoT Gateway & relevant power supply
- Phillips Screwdriver (PH1)

What's required (PK-126, -326)

- 4.5mm spanner
- 5.5mm spanner

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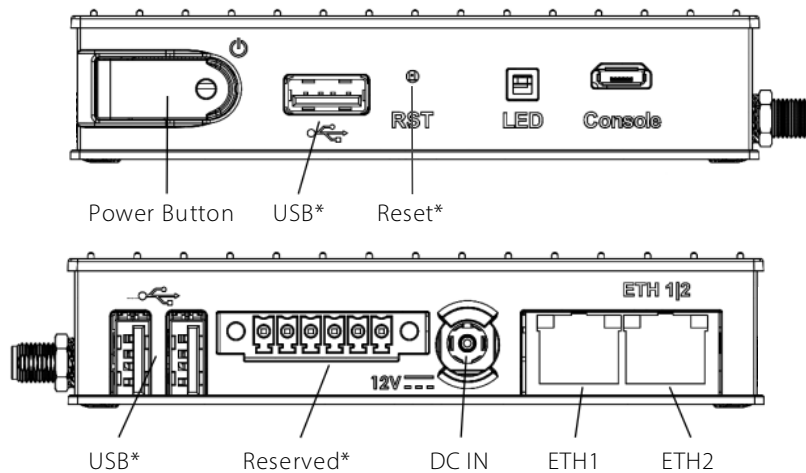
Getting Started

Ensure you have completed the Organisation registration form. If you have not, please visit gill.group/iot.

Attach the two Wi-Fi antennas to the “ANT1” and “ANT2” ports located on the side of the gateway. The antennas are interchangeable, so you can connect either antenna to either port.

Connect a straight-through Ethernet cable with network access to the primary “ETH1” port on the gateway. Either the supplied AC to DC power adapter, or the optional DC terminal block adapter, should be connected to the locking “DC IN” port.

If the installation uses the mount kit see the Mounting section at the end of this guide.

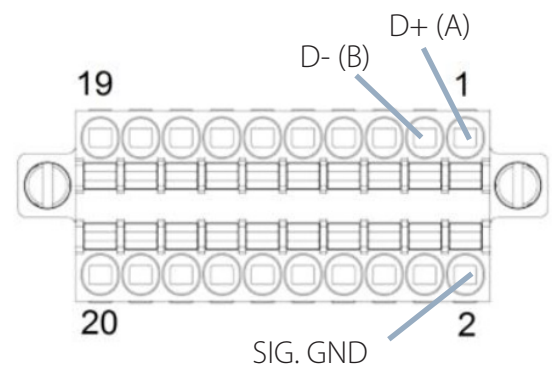


* - For Manufacturer Use Only.

Connections

Connect the Modbus RTU network RS-485 connections D+, D-, and Signal Ground to the 20-way connector. Press the orange button below the cable entry to insert the cable, and release to secure the connection.

For single sensor systems it is possible to connect the sensor directly to the gateway, if the installation environment allows. The mating connector should be connected to the conductors prior to insertion into the gateway port.



Rear view of mating connector (push-button side)

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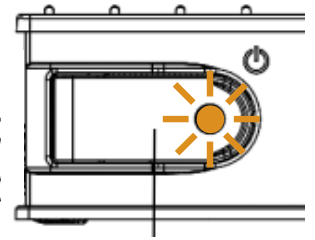
The Gill IoT Gateway connects compatible Gill sensors with the Gill IoT Platform

Configuration

The Gill IoT Gateway is configured using a browser-based tool, accessed using the gateway's Wi-Fi hotspot or the secondary "ETH2" Ethernet port. These methods are outlined in the sections below.

Once the configuration tool has been loaded it can be used to perform the following tasks:

- Getting "pairing" data that is used to associate the gateway with your Gill IoT Platform account.
- Adding or removing sensors from the set that are managed by the gateway.
- Checking the status of the connection between the gateway and the internet.
- Configuring the primary "ETH1" Ethernet port that is used by the gateway to access the internet.



Please refer to the user manual for further details.

To perform gateway configuration, please ensure the gateway is powered (LED in power button illuminated) and wait approximately 10 seconds for the gateway to initialise.

Configuration using Wi-Fi

Connecting the gateway over Wi-Fi can be performed on a wide range of devices, including smartphones, tablets, and laptops/desktops with Wi-Fi capabilities.

To access the configuration tool:

1. On your device, search for the gateway's Wi-Fi network "Gateway_XXXX", where XXXX are the last 4 characters of the gateway's MAC ID (printed on the underside of the gateway).
2. When prompted for the passkey, enter the serial number (S/N) of the gateway, printed on the label on the underside of the gateway.
3. Once connected, a pop-up may appear warning that no internet access is available. If required, choose the option to stay connected.
4. Open a web-browser on your device and navigate to <http://192.168.69.69>

Once you've finished using the gateway configuration tool, disconnect from the gateway's Wi-Fi. Users may also choose to disable 'auto-connect' on their devices, or 'forget' the network to prevent accidental connections in the future once finished.

Note: Configuration using Ethernet is also possible. For full details, refer to the user manual.

Pairing the Gateway

To connect the gateway to the Gill IoT Platform, you must pair the gateway with your account. With the gateway connected to the internet, and a successful connection to the platform, click "Pair" on the platform connection widget, and follow the steps in the user interface.

Navigate to the 'Gill IoT Gateway Devices' dashboard and click Pair Device (+) in the device list widget. Enter the Device Name and Secret Key obtained in the previous step, and click Pair Device.

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Adding a Modbus RTU-connected Sensor

To connect a sensor to the gateway:

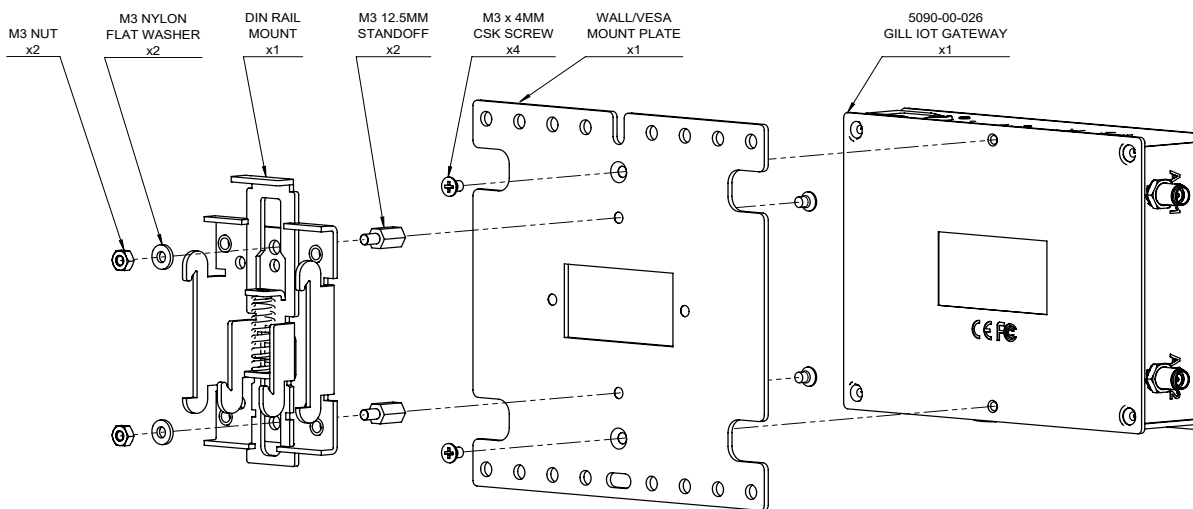
1. Connect to the configuration tool via Wi-Fi or Ethernet.
2. Once loaded, click the 'Add Device button' and follow the onscreen instructions.

The 'ETH2' connection or Wi-Fi connection can now be disconnected.

The sensor is now configured to be managed by the gateway, it will shortly appear in the Gill IoT Platform.

Note: alarms in the platform will be inhibited for this device until enabled, this is to avoid spurious alarms during setup and installation.

Mounting



For DIN mounting, assemble the DIN and wall/VESA plate prior to attachment to the gateway. For further details regarding the mounting adaptors, see section 4 - Installation in the user manual.

After sales support

Should you require after sales assistance with this product, please go to www.gillsc.com where you can request support by clicking on the "Get Support" button and filling out the form. Alternatively, call us during UK office hours on 01590 613900 (UK). Please have details of the product and serial number whenever possible.