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hoymiles DTU-Pro WiFi Monitoring Module User Manual

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DTU-Pro WiFi Monitoring Module

User Manual

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Important Safety Information

Read this First
This manual includes important instructions for installing and maintaining the Hoymiles Data Transfer Unit (DTU-PRO).

Safety Instructions

Symbol	Usage
No DANGER	Indicate a hazardous situation that can result in deadly electric shock hazards, other serious physical injuries, or fire hazards.
WARING	Indicate directions that must be fully understood and followed entirely to avoid potential safety hazards including equipment damage or personal injury.
CAUTION	Indicate that the described operation must not be carried out. The reader should stop, use caution, and fully understand the operations explained before proceeding.

- Note that only professionals can install or replace DTU.
- Do not try to repair DTU without Hoymiles' approval. If DTU is damaged, please send the DTU back to your installer for repairing/replacement. Disassembling DTU without Hoymiles' approval will invalidate the remaining warranty period.
- Please read all instructions and warnings on the technical specifications carefully.
- Do not use Hoymiles products in a way that is not suggested by the manufacturer. If doing so, it may cause death or injury to persons or damage to equipment.

User
This manual is only for professional installation and maintenance personnel to use.

Support and Contact Information
If you have technical queries concerning our products, please contact your system's installer. If further support is required, please contact Hoymiles' support at this link.

- **www.hoymiles.com**
- Hoymiles' customer service center: **service@hoymiles.com**

Other Information
Product information is subject to change without notice. The user manual will be updated frequently; please refer to Hoymile's official website at **www.hoymiles.com** for the latest version.

Hoymiles Microinverter System

Microinverter
It converts the DC output of solar modules into grid-compliant AC power. It sends the output information of PV panels and the operation data of the microinverters to the DTU, which is the hardware basis of the panel-level monitoring.
With conversion efficiency up to 96.7% and MPPT efficiency up to 99.9%, Hoymiles microinverters rank in the first class of the world's Microinverter industry.

DTU
The DTU is the key component in Hoymiles microinverter system. It works as the communication gateway, which operates between the Hoymiles microinverters and the Hoymiles Monitoring Server. The DTU communicates with the microinverter wirelessly via 2.4G RF, collecting the operation data of the system. Meanwhile, the DTU connects to the Internet via router and communicates with Hoymiles Monitoring Server. The microinverter system operation data will be uploaded to Hoymiles Monitoring Server via DTU.
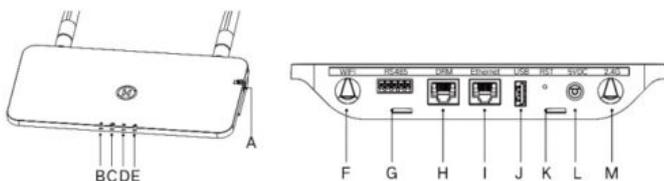
Homilies Monitoring Server
It collects the operation data and status of the microinverters in the system and provides panel-level monitoring for the users and maintenance staff.

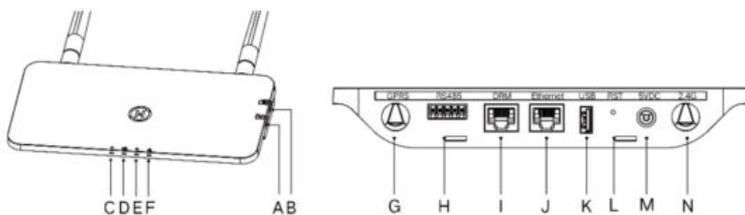The following diagram shows the Hoymiles Microinverter system.

Interface Layout

For DTU-Pro (GPRS Version)

Item	Description
A	SD Card Slot
B	DTU Power Indicator
C	DTU Communication Indicator (With Server)
D	DTU Communication Indicator (With MI)
E	DTU Alarm Indicator
F	WiFi Antenna (2.4G)
G	RS485
H	DRM Port (For Australia only)
I	Ethernet Port
J	USB Port
K	Reset Bottom
L	Power Port
M	2.4G Antenna

For DTU-Pro (WiFi Version)

Item	Description
A	SIM Card Slot
B	SD Card Slot
C	DTU Power Indicator
D	DTU Communication Indicator (With Server)
E	DTU Communication Indicator (With MI)
F	DTU Alarm Indicator
G	GPRS Antenna (GSM)
H	RS485
I	DRM Port (For Australia only)
J	Ethernet Port
K	USB Port
L	Reset Bottom
M	Power Port
N	2.4G Antenna

DTU Installation

System Capacity

The DTU-Pro is capable of monitoring up to 99 panels.

Note: Max. monitoring quantity is for open space, installation condition meets the requirement from both DTU and Microinverter manual, and the distance between Microinverter and DTU needs to be within the required range.

Basic Conditions Required

Before installing the DTU, ensure that the site meets the following requirements:
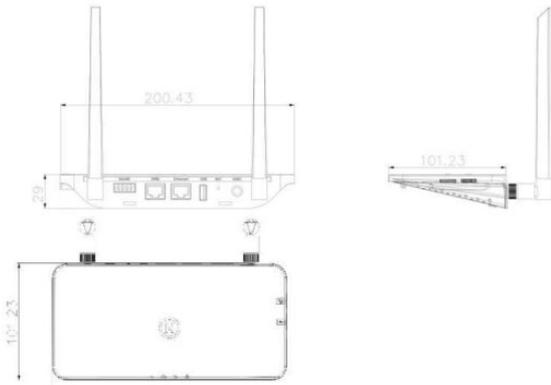
- Standard 220 VAC power outlet.
- Stable broadband internet connection.
- Router with Ethernet port.

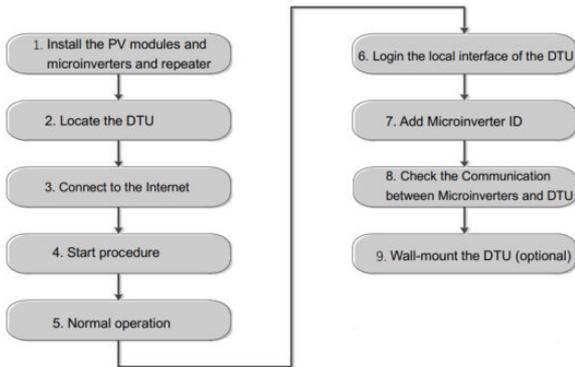The environmental requirements for DTU installation:

- Away from dust, liquid, acidic, or corrosive gas.
- The temperature should be between -20ºC and 55ºC.

If you plan to install the DTU on the wall, two #8 (4.166mm diameter) screws and a screwdriver shall be prepared in advance.

Dimensions

System Installation Sequence

1. Install the PV modules and microinverters and repeater
2. Locate the DTU
3. Connect to the Internet
4. Start procedure
5. Normal operation
6. Login the local interface of the DTU
7. Add Microinverter ID
8. Check the Communication between Microinverters and DTU
9. Wall-mount the DTU (optional)

Preparation

A) Download the Hoymiles mobile App

http://m.hoymiles.com/download_installer.html

B) Check the box for the following items:
– Homilies DTU-Pro
– Two Antennas
– Adapter
– Bracket
– 5 Pin Plug

C) Choose the way DTU-Pro connects to the Internet: For DTU-Pro (WiFi Version):
Use WiFi or Ethernet. Please prepare for the following items, if needed:

- Ethernet Cable (if choose the Ethernet option).
- Smart Phone/Tablet with Hoymiles Installer App installed (if choose WiFi option).

For DTU-Pro (GPRS Version):
Use GPRS or Ethernet. Please prepare for the following items, if needed:
– Ethernet Cable (if choose the Ethernet option)
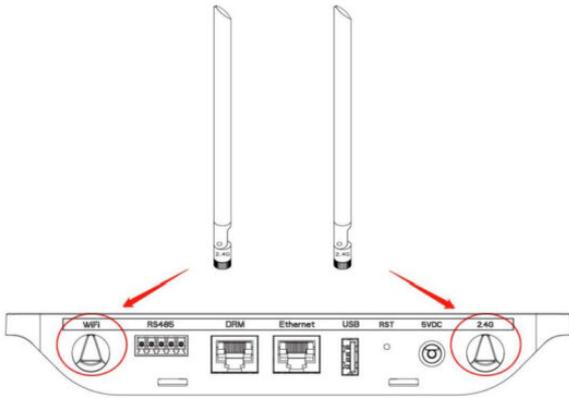– SIM Card (if choose the GPRS option)

Smart Phone/Tablet with Hoymiles Installer App installed (if choose GPRS option)

Install the DTU

Step 1: Install the antennas.
For DTU-Pro (WiFi Version): Take two 2. 4G ant antennas out from the box, and scr ew the ant Jenna into the WiFi port and 2.4G port.
For DTU-Pro (GPRS Version): Take the 2.4G antenna and GSM antenna out from the box, and screw the antenna into the GPRS port and 2.4G port.

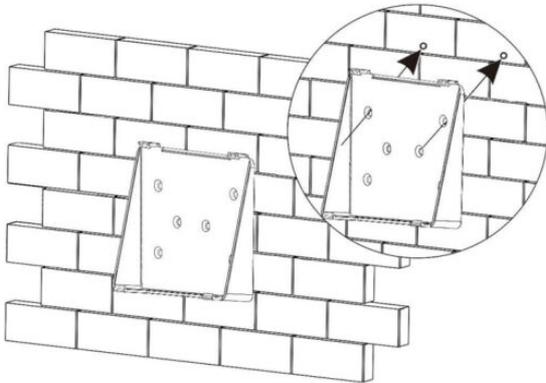**Step 2:** Insert the SIM Card into the SIM Card slot on the side of DTU (For DTU-Pro GPRS only).
Step 3: Choose an Installation Location

- Installed on the top floor to increase the signal strength.
- Installed near the center of the PV array.
- Installed at least 0.5m above the ground and more than 0.8m away from the corner.
  Note: Please do not install the DTU direct above the metal or concrete to prevent the signal dilution.
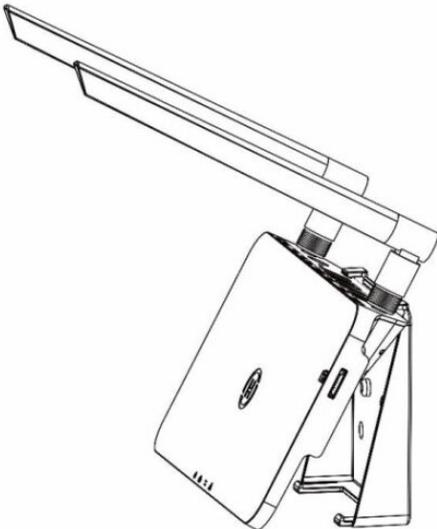
Step 4: Choose the Installation Method
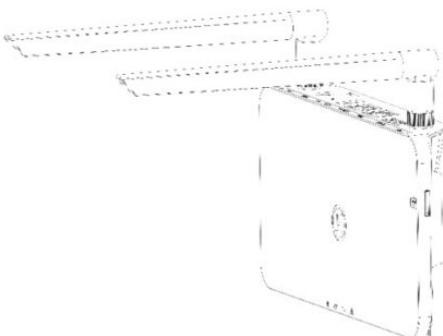**Option 1:** Mount the DTU on the wall.

- Screw the bracket on the wall, please choose at least two screw holes (one from each side) to fix the bracket (the M4 screws need to prepare by the installer);

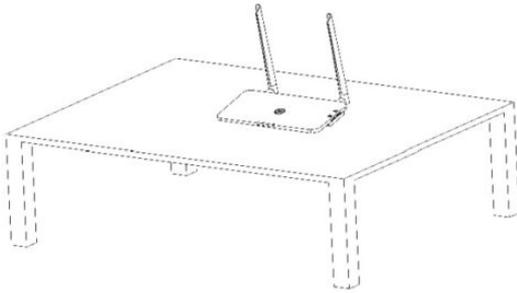- Match the bracket's upper buckle with DTU-Pro;

- Match the bracket's lower buckle by gently pressing the lower side of the DTU-Pro until hearing the Click.
  Please make sure the antennas are vertical to the wall.
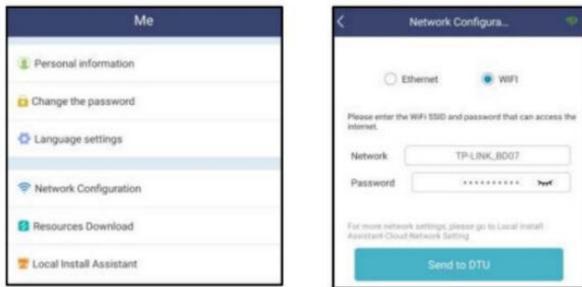
Option 2: Place the DTU on the table

- Place the DTU on the table, please make sure the antennas are vertical to the table;

A) Plug in the power adapter to power the DTU;
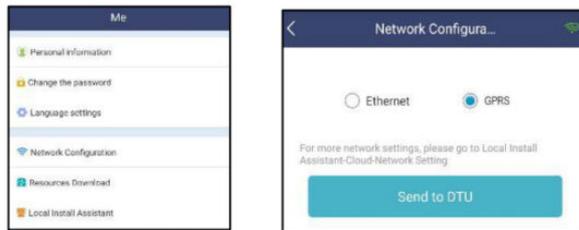B) Set up with the Internet.

For DTU-Pro (WiFi Version):
a) Use the smartphone/tablet/laptop open the Installer App and log in. Approach "Me" at the bottom of the page and then "Network Configuration". And complete the WiFi configuration (If choose WiFi);
b) Use the Lan Cable, one side connects with the house router and another side with the DTU Ethernet port.
Use the smartphone/tablet open the Installer App and log in. Approach "Me" on the bottom of the page and then "Network Configuration", and select "Ethernet" (If choose

Ethernet). **For DTU-Pro (GPRS Version):**
a) Use the Lan Cable, one side connects with the house router and another side with the DTU Ethernet port. Use the smartphone/tablet open the Installer App and log in. Approach "Me" on the bottom of the page and then "Network Configuration", and select "Ethernet" (If choose Ethernet).
b) Select the Network Configuration method from App (Me – Network Configuration).
c) Our default APN is CMNET, in terms of your country does not support CMNET please modify the APN at: "Me-Local Install Assistant-Cloud-Network Configuration" from
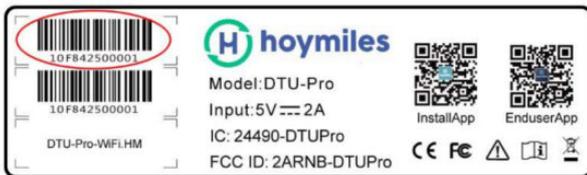

the Installer App (If choose GPRS).

Complete Installation Map

Please complete the installation map.
A) Peel the serial number label (as circled below) from the DTU and place it on the installation map.

B) Complete system information of the installation map shown as follows.   information on the installation map is shown as follows.
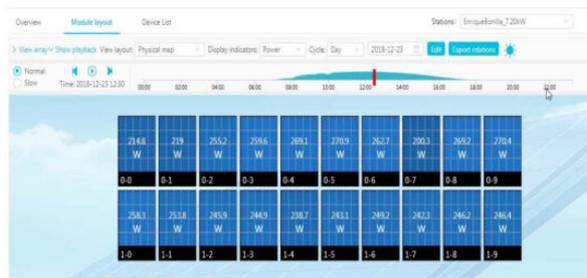
Site Creation on HMP

a. Install Hoymiles Installer APP by searching "Hoymiles" at the App Store (IOS) or Play Store (Android).

b. Open the APP and login in with your installer account name and password. If you are a new installer with Hoymiles, please apply an Installer account from Hoymiles Technical and Service Support Team at **service@hoymiles.com** in advance.

c. Add Station, select the "Station" tab on the bottom, then select "⊕" on the right top side of the page.

d. Select "Quick" for Single-DTU and "Profession" for Multi-DTU.

e. Please fill in the station details accordingly, and press "Next" after completed.

f. Press "Add DTU ID", scan the DTU ID (or you can manually input ID), and press "Next" after complete.

g. Click "Start binding" and choose the angle and tilt based on the installation.

h. Scan the Microinverter ID (or you can manually input the ID) and click the tick after completing each ID input. Press "Finish" once all Microinverter ID has been input.

i. Disable the Scan function on the top of the right-hand side and design the Layout base on the installation. Click the tick box on the top of the right-hand side, and then select "Next" after completing the design.

j. Upload a picture of the site and select "Finish" to complete the site creation.

k. The new site will appear on the Station list from the Installer account.

l. Please click the "Networking" button after the power station is created.

m. Please wait about 30 minutes, the station will show online, and all the MI-IDs are found.

Note: For more setting details regarding the Export Control, and Local Assistance please acquire the related Operation Guide from our Tech. Support Team at **service@hoymiles.com**.

Customer Login

a. Please download the End User App. You can search "Hoymiles" at the App Store (IOS) or Play Store (Android).

b. Log in with the Password and User name that has been set up by the Installer on the previous step (Section 6 step e), and press "Login".

c. Customers will be able to view all details once the data start to upload, normally it will need around 30 mins for the first data to come through.

d. Customer can also view the Microinverter generating details via accessing the HMP monitoring platform website at **https://world.hoymiles.com**
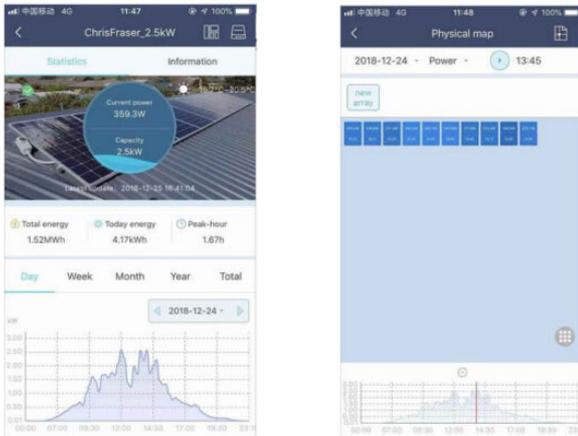
Browse the Web Station

Log in to your account and browse the web station.

View Phone APP

Download the mobile phone APP and view station information.

Datasheet

Model	DTU-PRO (WIFI Version)	DTU-PRO (GPRS Version)
Communication to Microinverter		
Type	2.4G RF	
Maximum distance (open space)	200m	
Maximum number of panels connected	99′	
Communication to Cloud		
Type	WIFI/Ethernet	GSM/Ethernet
Sample rate	15 minutes	
Display		
LED	LEI:Y4	
APP	Local APP	
Power Supply		
Type	External plug-in adapter	
Adapter input voltage/frequency	100 to 240 V AC / 50 or 60Hz	
Adapter output voltage/current	5V / 2A	
Power consumption	2.5W (typical), 5W (maximum)	
Mechanical Data		
Ambient temperature(°C)	-20°C to 55°C	
Dimensions(WxHxD)	200mmx101 mmx29mm	
Weight	0.20 kg	
Mounting system	Wall mounting / Table	
Features		
Compliance	RCM, FCC 15B, FCC 15C, EN60950-1, EN61000-3-2, EN61000-3-3, EN301489, EN300328, EN300440	

[1] Depending on the installation environment.

Documents / Resources

hoymiles DTU-Pro WiFi Monitoring Module [pdf] User Manual
DTU-Pro, WiFi Monitoring Module

Related Manuals / Resources

DTU-Pro WiFi Hoymiles Monitoring Module User Manual

DTU-Pro WiFi Hoymiles Monitoring Module User Manual Important Safety Information 1.1 Read this First This manual includes important…

hoymiles DTU-W100 3rd Gen WiFi Model Installation Guide

hoymiles DTU-W100 3rd Gen WiFi Model Interface Layout Item Description A USB Connector B Status Indicator C Reset…

NETGEAR Orbi Pro WiFi User Manual

Orbi Pro WiFi

D6 Pro WiFi Ductless Controller

DC6000WF1001/U Installation Guide [pdf]: D6 Pro Smart Ductless Controller DC6000WF Guia de instalação [pdf]: D6 Pro Smart Controlador…

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