



Data Transfer Unit Datasheet

DTU-Pro

Description

Hoymiles gateway DTU-Pro is a data transfer unit that collects information and data of microinverters using 2.4 G wireless solution and sends them to our monitoring platform S-Miles Cloud via Ethernet, Wi-Fi, or 4G.

With DTU-Pro, you can easily read module-level data and alarms, realize remote operation and maintenance of the PV system at any time, from anywhere on S-Miles Cloud.

Features

01

Reliable and Flexible

- Stable communication with HM, MI series of microinverter
- More communication options with S-Miles Cloud, using Ethernet, Wi-Fi, or 4G
- Support of RS485, Ethernet to communicate with peripherals

02

Simple and Efficient O&M

- Module-level monitoring and data storage
- Local configuration with S-Miles Toolkit
- Support remote O&M including remote upgrading, parameter setting

03

Smart

- Smart zero export control and power export limiting
- PV generation and load consumption monitoring

Technical Specifications

Model	DTU-Pro (Wi-Fi Version)	DTU-Pro (4G Version)
Communication to Microinverter		
Signal	2.4 GHz Proprietary RF (Nordic)	
Maximum distance (open space)	200 m	
Monitoring data limit from solar panels	99 ¹	
Communication to S-Miles Cloud		
Ethernet	RJ45 × 1, 100Mbps	
Wireless standard ²	Wi-Fi: 802.11b/g/n	4G: TDD-LTE, FDD-LTE 3G: SCDDMA 2G: GSM/GPRS
Sample rate ³	Per 5 minutes	
Communication to Peripherals		
RS485	COM × 1, 9600bps, Modbus-RTU	
Ethernet	RJ45 × 1, Modbus-TCP	
DRM)	RJ45 × 1, DRM0/5/6/7/8	
Interaction		
LED	LED Indicator × 4 – RUN, Cloud, MI, ALM	
APP	S-Miles Installer	
Power Supply (Adapter)		
Type	External adapter	
Adapter input voltage/frequency	100 to 240 V AC / 50 or 60 Hz	
Adapter output voltage/current	5 V / 2 A	
Power consumption	Typ. 1.5 W / Max. 3.0 W	Typ. 2.5 W / Max. 5.0 W
Mechanical Data		
Ambient temperature	-20°C to 55°C	
Dimensions (W × H × D)	200 × 101 × 29 mm (without antennas)	
Weight	0.20 kg	
Installation method	Wall mounting / Desktop mounting	
Environmental rating	Indoor-IP20	
Compliance		
Certificates	CE, FCC, IC, RCM, Anatel	
Microinverter Compatibility		
Microinverter model	HM series, MI series	

*1 This depends on the installation environment. Please refer to user manual for more details.

*2 Extended antenna is recommended if the DTU is installed inside a metal box or under a metal/concrete roof.

*3 The sampling rate depends on the number of monitored solar panels. If there are fewer than 60 panels, the sampling rate is every 5 minutes. If there are more than 60, the rate is every 15 minutes.