

Data Transfer Unit Datasheet

DTU-Pro

Description

Hoymiles gateway DTU-Pro is a data transfer unit which collects information and data of PV microinverter using 2.4G wireless solution and sends them to S-Miles Cloud, Hoymiles monitoring System, using different communication options such as Ethernet, Wi-Fi, GPRS or 4G.

With DTU-Pro, users can easily read module-level data and alarms, realize remote operation and maintenance of 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, GPRS 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*

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Technical Specifications

Model	DTU-Pro (Wi-Fi Version)	DTU-Pro (GPRS Version)	DTU-Pro (4G Version)
Communication to Microinverter			
Signal	2.4GHz 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[2]	Wi-Fi: 802.11b/g/n	2G: GSM/GPRS	4G: TDD-LTE, FDD-LTE 3G: SCDMA 2G: GSM/GPRS
Sample rate	Per 15 minutes		
Communication to Peripherals			
RS485	COM × 1, 9600bps, Modbus-RTU		
Ethernet	RJ45 × 1, Modbus-TCP		
DRM (For AU/NZ only)	RJ45 × 1, DRM0/5/6/7/8		
Interaction			
LED	LED Indicator × 4 – RUN, Cloud, MI, ALM		
APP	S-Miles Toolkit		
Power Supply (Adapter)			
Type	External adapter		
Adapter input voltage/frequency	100 to 240 V AC / 50 or 60 Hz		
Adapter output voltage/current	5V/2A		
Power consumption	Typ. 1.5W / Max. 3.0W	Typ. 2.5W / Max. 5.0W	
Mechanical Data			
Ambient temperature (°C)	-20 to 55		
Dimensions (W × H × D mm)	200 × 101 × 29 (without antennas)		
Weight (kg)	0.20		
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.

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