



Data Transfer Unit Datasheet

DTU-Pro-S

Description

Hoymiles gateway DTU-Pro-S is a data transfer unit which collects the information and data of PV microinverter using the Sub-1G wireless solution and sends to Hoymiles Monitoring System, S-miles Cloud, using different communication options such as Ethernet, WiFi or 4G.

With DTU-Pro-S, users can easily read the module-level data and alarm, realize remote operation and maintenance of the microinverter system at any time and any place on S-miles Cloud.

Features

01**Reliable and Flexible**

- Sub-1G wireless solution enables stable communication with HMS, HMT series of microinverter
- More communication options with 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-S(WIFI Version)	DTU-Pro-S(4G Version)
Communication to Microinverter		
Signal		Sub-1G
Maximum distance (open space)		400m
Monitoring data limit from solar panels ¹		99
Communication to S-miles Cloud		
Ethernet		RJ45*1, 100Mbps
Wireless ²	WIFI:802.11b/g/n	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 60Hz
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°C to 55°C
Dimensions(W×H×D)		200mm×101mm×29mm (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		HMT-2250/1800-6T HMS-2000/1800-4T, HMS-1500/1200-4T HMS-1000/900-2T, HMS-800/700/600-2T HMS-500/450/400/350/300-1T

*1 Depending on the installation environment, please refer to user manual for more details.

*2 If the DTU installation location is inside a metal box or under the metal/concrete roof, extended antenna will be suggested.