



Data Transfer Unit Datasheet

DTU-Pro-S-C

Description

Hoymiles gateway DTU-Pro-S-C is a data transfer unit that collects information and data of PV microinverters using Sub-1G wireless solution and sends them to our monitoring platform S-Miles Cloud via Ethernet or 4G.

With DTU-Pro-S-C, 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

- Sub-1G wireless solution enables stable communication with HMS and HMT series microinverters
- More communication options with Ethernet 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 Installer App
- 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-C (4G Version)
Communication to Microinverter	
Signal	Sub-1G
Maximum distance (open space)	400 m
Monitoring data limit from solar panels ¹	99
Communication to S-Miles Cloud	
Ethernet	RJ45 × 1, 100 Mbps
Wireless standard ²	4G: TDD-LTE, FDD-LTE 3G: SCDDMA 2G: GSM/GPRS
Radio band	2.4 GHz
Sample rate ³	Per 5 minutes
Communication to Peripherals	
RS485	COM × 1, 9600 bps, 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. 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	HMS series, HMT series

*1 This depends on the installation environment. Please refer to the 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.