



Data Transfer Unit Datasheet

DTU-Pro-S

Description

The Hoymiles DTU-Pro-S is a data transfer unit that wirelessly collects data from PV microinverters using a Sub-1G connection. It then sends the data to Hoymiles' monitoring platform S-Miles Cloud via Ethernet or Wi-Fi.

With the DTU-Pro-S, you can track module-level data, receive alarms, and remotely manage your PV system anytime, anywhere through S-Miles Cloud.

Features

01

Reliable and Flexible

- Sub-1G wireless solution enables stable communication with HMS³, HMT series of microinverter
- More communication options with Ethernet and Wi-Fi
- 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
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, 100Mbps
Wireless standard ²	Wi-Fi: 802.11b/g/n
Radio band	2.4 GHz
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 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
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	HMS series ³ , HMT series, MiT series ³ , MiS 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 DTU-Pro-S is compatible with: (a) HMS Series microinverters except HMS-300W/350W/400W/450W/500W-1T, HMS-600W/700W/800W/900W/1000W-2T, and HMS-1600DW/1800DW/2000DW-4T microinverters; (b) MiT Series microinverters except MIT-4000/4500/5000-8E Series microinverters.