Data Transfer Unit Datasheet

DTU-Pro-S

Description

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

With DTU-Pro-S, users can easily read module-level data and alarm, realize remote operation and maintenance of 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, 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 (Wi-Fi Version)	DTU-Pro-S (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, 100Mbps	
Wireless[2]	Wi-Fi: 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 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 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, HMT 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.