



Data Transfer Unit Datasheet

DTU-Pro-S

Description

The Hoymiles DTU-Pro-S gateway collects data from PV microinverters using a Sub-1G wireless connection and transmits it to the Hoymiles monitoring platform S-Miles Cloud via Ethernet, Wi-Fi, or 4G.

With the DTU-Pro-S, you can access real-time, module-level data and system alerts, monitor system performance remotely, and troubleshoot issues from anywhere using S-Miles Cloud.

Features

01 Reliable and Flexible

- Sub-1G wireless solution enables stable communication with HMS³, HMT, MiS, MiT³ series microinverters
- 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 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 (Wi-Fi Version)	DTU-Pro-S (4G Version)
Communication to Microinverter		
Signal	Sub-1G	
Maximum distance (open space) (m)	400	
Monitoring data limit from solar panels ¹	99	
Communication to S-Miles Cloud		
Ethernet	RJ45 × 1, 100 Mbps	
Wireless standard ²	Wi-Fi: 802.11b/g/n	4G: TDD-LTE, FDD-LTE 3G: SCDMA 2G: GSM/GPRS
Radio band (GHz)	2.4	
Sample rate (min)	Per 5	
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 (V AC/Hz)	100 to 240 / 50 or 60	
Adapter output voltage/current (V/A)	5 / 2	
Power consumption (W)	Typ. 1.5 / Max. 3.0	Typ. 2.5 / Max. 5.0
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 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} 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.