



Data Transfer Unit Datasheet

Solar for Innovators

DTU-PRO

Description

The Aptos gateway DTU-Pro is a data transfer unit which collects information and data from PV microinverters using a 2.4G wireless solution, and sends them to the Aptos End User App and the Aptos Monitoring Site, using different communication options such as Ethernet, Wi-Fi, GPRS or 4G.

With the DTU-Pro, users can easily read module-level data, system alarms, as well as realize remote operations and maintenance of the PV system at any time, from anywhere on the Aptos End User App.



Key Features

Reliable and Flexible



- Stable communication with MAC400 & MAC800 Microinverters
- More communication options with the Aptos Monitoring Platform, using Ethernet, Wi-Fi, GPRS or 4G.
- Support of RS485, Ethernet to communicate with peripherals.

Simple and Efficient O&M



- Module-level monitoring and data storage
- Local configuration with the Aptos Installer App.
- Support remote O&M including remote upgrading and adjusting parameter settings.



Smart



- Smart zero export control and power export limiting.
- PV generation and load consumption monitoring.

Technical Specifications

Model	DTU-Pro (Wi-Fi Version)	DTU-Pro (GPRS Version)	DTU-Pro (4G Version)
Communication to Microinverter			
Signal	2.4 GHz Proprietary RF (Nordic)		
Maximum Distance (Open Space)	200m		
Monitoring Data Limit from Solar Panels	99 ¹		
Communication to Aptos Monitoring Platform			
Ethernet	RJ45 x 1, 100Mbps		
Wireless ²	Wi-Fi : 802.11b/g/n	2G: GSM/GPRS	4G: TDD-LTE, FDD-LTE 3G : SCDMA 2G: GSM/GPRS
Sample Rate	Per 15 minutes		
Communication to Peripherals			
RS485	COM x 1, 9600bps, Modbus-RTU		
Ethernet	RJ45 x 1, Modbus-TCP		
DRM (For AU/NZ only)	RJ45 x 1, DRM0/5/6/7/8		
Interaction			
LED	LED Indicator x 4 -RUN, Cloud, MI, ALM		
APP	Aptos Installer App		
Power Supply (Adapter)			
Type	External Adapter		
Adapter input voltage/frequency	100 to 240V AC / 50 or 60 Hz		
Adapter output voltage/frequency	5V/2A		
Power Consumption	Typ. 1.5W/ Max. 3.0W	Typ. 2.5W/ Max. 5.0W	
Mechanical Data			
Ambient Temperature (C)	-20 to 55		
Dimensions (W x H x D mm)	200 x 101 x 29 (Without antennas)		
Weight (kg)	0.20		
Installation Method	Wall Mounting / Desktop Mounting		
Environmental Rating	Indoor-IP20		
Compliance			
Certificates	CE, FCC, IC, RCM, Anatel		

*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.



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