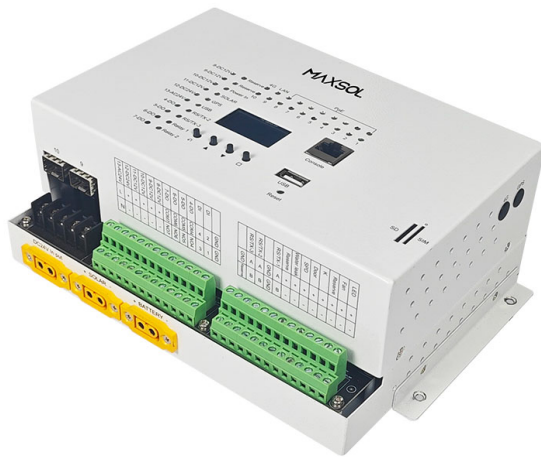


SOLAR IOT POE SWITCH

Managed Solar IoT PoE Switch with 8 Gigabit Ports

Model IOTM2802SFG-S



Deploy this 8GE+2GF managed solar switch for remote industrial IoT networks. Features 90W PoE, battery monitoring, and 4G uplink. Ideal for system integrators.

Features

- 8GE + 2GF Managed Solar Industrial PoE Switch with IoT Functions | BT 90W | 120W Budget | PV & Battery Monitoring
- Port 1-8: IEEE802.3af/at; Port 1-2: IEEE802.3bt; Port 3-4: 24V PoE
- Power Input: Solar DC24V, Mains AC100-240V 50/60Hz / Adapter Power Supply DC24V
- Indicator: DC24V operation, alarm indicator lights, interface indicator lights, status indicator lights, etc.
- Operating Temperature: -40°C-75°C
- 1*RJ45 OOB RJ45 port, 1*RJ45 Console, 1*USB Port, 1*SIM Slot
- 1.3-inch OLED display screen
- Power Out: 1* AC24V, 1* DC24V, 4* DC12V
- Support Serial port transparent transmission, MQTT, TCP/IP, HTTP, HTTPS, etc.

Specification

Features

Model	IOTM2802SFG-S
Highly Integrated Design	Integrates solar, IoT, communications, PoE and intelligent O&M technologies for easier installation.
Safe & Efficient	Utilizes advanced technology and high-quality materials to achieve high-efficiency solar conversion and ensure safety and stability
Eco-Friendly & Energy-Efficient	Achieves zero pollution and reduces dependence on traditional energy sources.
Remote Intelligent O&M	Provides predictive alerts (threshold-based), real-time handling and post-analysis, increasing uptime while cutting O&M costs.
Intelligent Enclosure Management	Intelligent temperature control (autofan on/off by temperature threshold). Mains monitoring (voltage, current, over/under-voltage, over-current alarm and remote auto-reclosing). Surge-protector status via telemetry. Real-time temperature, humidity and door-status detection. Lighting linked to door status (lights on when door opens). Water-immersion detection with proactive alarm.

Specification

Interfaces	8*10/100/1000M RJ45 ports 1*RJ45 OOB management port 1*RJ45 Console 2*1000M Fiber ports 1*USB Port 1*SIM Slot
I/O interfaces	4 channels of DI and 4 channels of DO
Serial interfaces	3 channels in total for RS232/RS485
Processor	Quad-core Cortex-A7 processor @1.2GHz main frequency
Relays	1 NO, 1 NC
Power Output	1* AC24V 1* DC24V 4* DC12V
Battery	Nominal voltage 24V (Max 25.6V) Nominal capacity 30AH Total power 720wh
PoE	Port 1-8: IEEE802.3af/at Port 1-2: IEEE802.3bt Port 3-4: 24V PoE
Working Temperature	-40°C – +75°C
Communication Method	4G and optical fiber or RJ45 uplink
OLED Screen	1.3-inch OLED display screen
Power Input	Solar DC24V
Indicators	DC24V operation, alarm indicator lights, interface indicator lights, status indicator lights, etc.
Protection Class	IP20
Dimension(H×W×D)	163.5*216*88.7mm
Weight	Net weight: 1.90kg

Power Management

Power Management	Supports 4-channel DC12V independent control, with a maximum current of 2.5A. It allows remote activation or deactivation of individual power channels, and features automatic overcurrent and short circuit protection with alarm reporting; Supports 1-channel DC24V, with a maximum current of 2.5A. It can remotely turn on or off a single-channel power supply, supports automatic overcurrent and short circuit protection, and reports alarms; Supports 1-channel AC24V, with a maximum current of 2.5A. It can remotely turn on or turn off a single-channel power supply, and supports overcurrent protection with alarm reporting.
Battery Management	Support battery charging management; Support battery discharging management; Support reverse battery protection; Support battery overcharge protection; Support battery over-discharge protection; Low temperature protection for battery charging (charging ceases when temperature falls below 0°C); Low temperature protection for battery discharge(discharge stops when temperature is below 20°C); High-temperature protection for battery charging(cease charging when temperature exceeds 70°C); High temperature protection for battery discharge(discharge stops when temperature exceeds 70°C).
Serial Port & DI/DO Management	Supports 2-channel 485/232 serial ports and 4-channel DI/DO switch signals; Support remote opening/closing of serial ports and DI/DO states, and display the detection status of serial port and switch connections; Supports detecting serial port TX and RX traffic; Supports configuration of serial port baud rate, start bit, parity bit, stop bit, flow control, and other parameters, as well as serial port data transparent transmission supporting Ethernet encapsulation content such as TCP/IP and port number configuration; Support indicator lights to display the connection status of serial ports and DI/DO.
Switch Network Management	Support jumbo frames to ensure stable and reliable transmission of large data frames; Support flow control function, automatically adjust the sending rate; Support 802.1Q VLAN function to divide different services without interference; Support MAC address whitelist and secure access authentication; Support port traffic statistics.
4G LTE Management	Support remote viewing of 4G status, such as obtained addresses, module frequency band information, and signal status; Support network priority settings: priority 4G/priority wired transmission; Support manual modification of APN settings; Support SIM card presence detection.
Solar Control and Management	Support reading and displaying voltage, current, and power of solar panels; Support reading battery status; Support the collection of the following data: the lowest voltage of the battery on the current day, the highest voltage of the battery on the current day, the maximum charging current on the current day, the maximum discharging current on the current day, the maximum charging power on the current day, the maximum discharging power on the current day, the ampere-hours of charging on the current day, the ampere-hours of discharging on the current day, the amount of electricity generated on the current day, and the amount of electricity consumed on the current day; Supports reading the device's operating days, over-discharge count, and full charge count.
System Management	Support username and password management; Support display of software and hardware versions; Support remote upgrade of firmware and configuration; Support remote restarting; Support resetting to factory settings; Support NTP clock protocol.



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