

## Datasheet

# Cloud IoT Controller

WI-IOT100



## Overview

The cloud IoT controller is designed for solar power PoE solution, provides Ethernet and RS-485 interface, the photovoltaic power and battery status and data of Wi-Tek solar power PoE switch can be visually managed in the Wi-Tek cloud with it. It supports IEEE 802.3af PoE in and 12~54V wide DC power supply, can be powered by PoE in solar power PoE solution to build a zero-carbon communication system, develop clean and digitalized energy for a brighter, greener future.

## Features

### Multiple Power Supply Modes

Support IEEE 802.3af PoE in and 12~54V DC power supply, which can be flexibly selected according to the application scenarios.

### Extremely Low Power Consumption

The maximum power consumption of controller is only 1.8W(without VCC out), effective power saving.

### Easy and Intelligent Photovoltaic Power and Battery Status Monitoring

The dashboard in Wi-Tek cloud makes it easy to monitor real-time solar power and battery status, receive battery capacity and charge status alarm, track power generation, power consumption, and battery data.

### Wi-Tek Cloud Management

The photovoltaic power and battery status and data of Wi-Tek solar power PoE switch can be quick configuration, visual management, and remote access in the Wi-Tek through WI-IOT100, which is easy operation and maintenance.

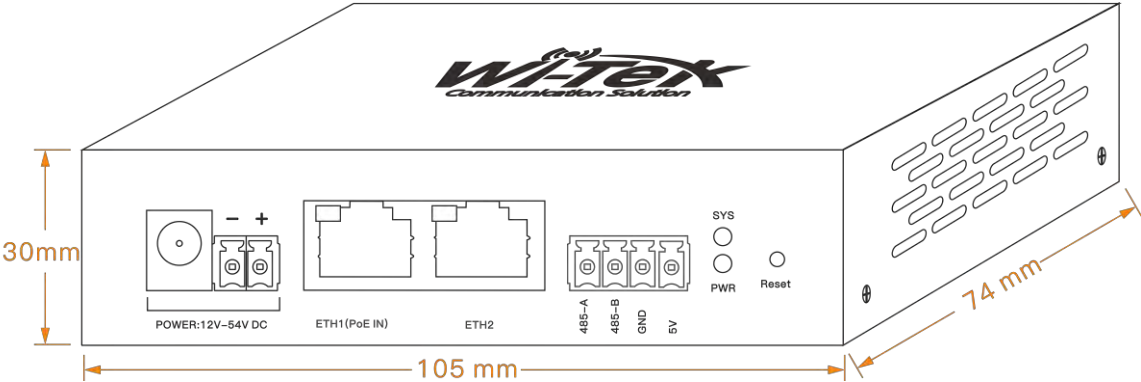


## Specifications

|                       |  |
|-----------------------|--|
| Products              | WI-IOT100  |
| Hardware Version      | V1   |
| Hardware Features     |  |
| Interface             | 1*10/100Mbps PoE IN RJ45 port<br>1*10/100Mbps RJ45 port  |
| Serial Port           | 1*RS-485 port<br>Signal: 485-A, 485-B, GND, VCC(5V)<br>Baud Rate: 300-230400 bps<br>Data bits: 8bits, 7bits<br>Stop bit: 1 bit, 2bits<br>Check bit: None, Even, Odd<br>Support software flow control   |
| Flash                 | 8MB  |
| DDR2                  | 64MB   |
| LED Indicator         | 1*PWR, Power indicator, 1*SYS, System indicator  |
| Reset Button          | Short press 1~3 seconds: Reboot the device.<br>Long press over 5 seconds: Restore the factory default configuration.   |
| Power Supply          | IEEE 802.3af PoE IN<br>12~54V DC (The two DC power supplies cannot be connected at the same time)  |
| Power Consumption     | <1.8W(without RS-485 VCC output)   |
| Dimensions            | 105*74*30mm  |
| Weight                | 0.21kg   |
| Package Dimensions    | 182*133*36mm   |
| Package Weight        | 0.3kg  |
| Installation          | DIN-rail/Desktop mounted   |
| Fan Quantity          | Fan-less   |
| Material              | Metal shell  |
| Color                 | Silver   |
| Reliability           |  |
| ESD Protection        | Contact Discharge: ±6kV, Air Discharge: ±8kV   |
| Surge Immunity        | Common mode: 2kV, Differential mode: 1kV   |
| Operating Environment | -20°C to 65°C, 5%~95% (non-condensation)   |
| Storage Environment   | -40°C to 70°C, 5%~95% (non-condensation)   |
| Software Features     |  |
| Network               | Static IP, Dynamic IP  |
| Serial Mode           | DTU, Modbus Master, Modbus Slave, Solar  |
| Advanced              | Ping Watchdog, Scheduled Reboot, NTP Server, Diagnosis: PING, TRACERT  |
| Management            | Local WEB Management, Cloud Management: The photovoltaic power and battery status and data of Wi-Tek solar power PoE switch can be quick configuration, visual management, and remote access in the Wi-Tek through WI-IOT100(Solar serial mode). |

# Appearances and Dimensions

|            |
|------------|
| WI-IOT100  |
| Dimensions |



| Front Panel  | Side Panel   |
|--|--|
| <p>Labels for Front Panel components:</p> <ul style="list-style-type: none"><li>2*DC Power Input</li><li>2*100Mbps RJ45</li><li>RS-485</li><li>Power Indicator</li><li>System Indicator</li><li>Reset Button</li></ul> | <p>Labels for Side Panel components:</p> <ul style="list-style-type: none"><li>Grounding</li></ul> |

# Package Content

Welcome to order our products. After purchasing, you will receive:

| Item                     | Quantity |
|--------------------------|----------|
| Cloud IoT Controller     | 1 pcs    |
| DIN-rail accessories     | 1 pcs    |
| Quick Installation Guide | 1 pcs    |



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Technical Support



Cloud Management



Company Website