**Datasheet**

# Cloud IoT Controller

WI–IOT100

## Overview

The cloud IoT controller is designed for solar powered PoE solution, provides Ethernet and RS–485 interface, the photovoltaic power and battery status and data of Wi–Tek solar powered 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 powered 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 powered PoE switch can be quick configuration, visual management, and remote access in the Wi–Tek through WI–IOT100, which is easy operation and maintenance.
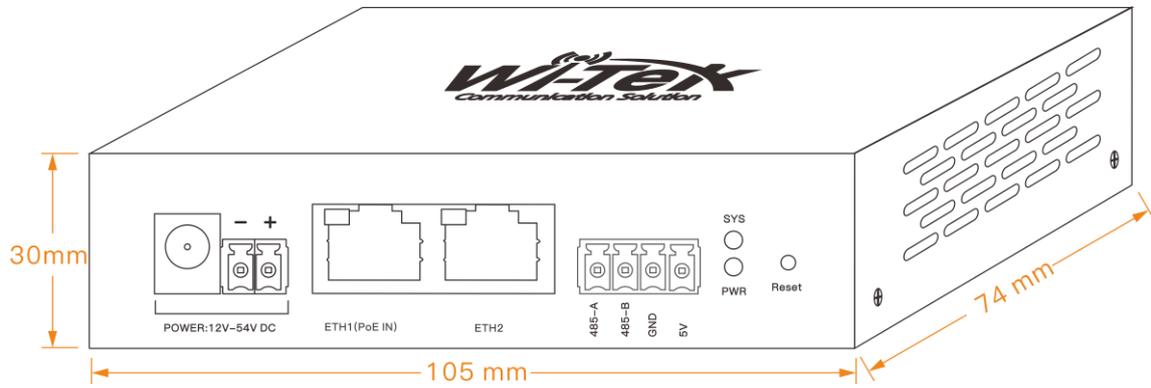
## Specifications



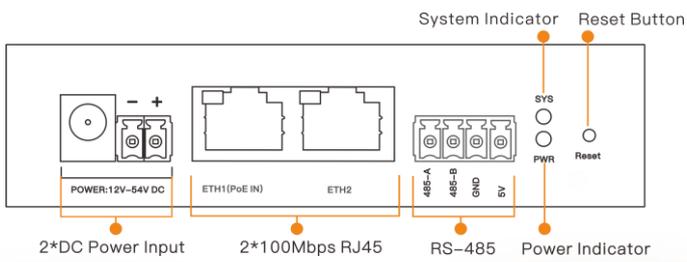| Products | WI–IOT100 |
| --- | --- |
| Hardware Version | V1 |
| **Hardware Features** | |
| Interface | 1*10/100Mbps PoE IN RJ45 port<br>1*10/100Mbps RJ45 port |
| Serial Port | 1*RS–485 port<br>Signal: 485–A, 485–B, GND, VCC(5V)<br>Baud Rate: 300–230400 bps<br>Data bits: 8bits, 7bits<br>Stop bit: 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 powered 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



30mm

105 mm

74 mm

POWER:12V–54V DC    ETH1(PoE IN)    ETH2    485-A  485-B  GND  5V    SYS  PWR    Reset

### Front Panel



System Indicator    Reset Button

POWER:12V–54V DC    ETH1(PoE IN)    ETH2    485-A  485-B  GND  5V    SYS  PWR    Reset

2*DC Power Input    2*100Mbps RJ45    RS–485    Power Indicator

### Side Panel



Grounding

# 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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