Product Introduction

Features & Benefits

- A data acquisition equipment connected to cloud servers. Supports a two-way data collection channel between the devices and the cloud
- Sets up a secure tunnel between the user and the remote device via the cloud server, without the need of additional VPN server
- Supports MODBUS TCP, MODBUS ASCII/RTU, Mitsubishi MC, Siemens ISO-on-TCP and Omron FINS protocols
- Connect to AWS IoT MQTT Broker through MQTT protocol with Publish and subscribe pattern
- Universal LTE-FDD and LTE-TDD frequency bands, backward compatible with WCDMA/GSM/GPRS/EDGE 2G networks
- LTE data transmission rate up to 150Mbps (downlink) / 50Mbps (uplink)
- Automatic APN parameter matching and connection redial
- Connecting to internet through by 4G cellular network or broadband interfaces. Come with indication the priority of internet connectivity interfaces activated
- The WAN port can be configured as LAN mode
- Various peripheral interfaces include RS-485, RS-232, WAN and LAN ports
- Built-in RTC and supports NTP time synchronization over a network
- Firewall function: Stateful Packet Inspection (SPI), prevent denial of service (DoS) attacks, MAC address filter and IP port filter
- Supports TCP/IP, UDP, ICMP, DHCP, HTTP, DNS and SSH protocols
- Device configurations import/export
- Network data flow statistics
- Networking failure diagnostics

- Custom alarm conditions with email alerts

Specification

TECHNOLOGY

Standard Compliance
GSM/GPRS/EDGE/ UMTS/DC-HSPA+/LTE
IEEE 802.3 10Base-T
IEEE 802.3u 100Base-T(X)

INTERFACE
4G
GSM/GPRS/EDGE/UMTS/DC-HSPA+/LTE
Antennas
1 2.5dBi omni-directional, SMA(male) connector, 3 meters cable with magnetic stand

Fast Ethernet
RJ45 Ports:
WAN/LAN: 1 10/100Base-T(X), auto MDI/MDI-X, auto negotiation
LAN: 1 10/100Base-T(X), auto MDI/MDI-X, auto negotiation

Serial Communication
Serial Ports : 1 RS-232(5-pin terminal block), 1 RS-485(3-pin terminal block), 8KV isolation protection
Baud Rate: 2400bps to 115200bps

SIM Slot
Number of SIMs: 1, Mini-SIM (25mm x 15mm)
SIM Operating Voltage: 1.8V/3V

Reset Button
1set

4G RF

Frequency Band

- LTE FDD: B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28

- LTE TDD: B38, B39, B40, B41

- UMTS: B1, B2, B4, B5, B6, B8, B19

- GSM: 850, 900, 1800, 1900MHz

MANAGEMENT

Cloud Service
DIACloud

Software
SSH, DNS, HTTP, TFTP, DHCP Server/Client, Syslog, NTP, MODBUS TCP, MODBUS RTU/ASCII, Mitsubishi MC, Siemens ISO-on-TCP, Omron FINS

Security
MAC/IP/PORT filtering, Port forwarding, SSH, SPI, Prevent denial of service (DoS) attacks

Virtual COM Drivers
Windows XP, Windows Vista (32/64 bits), Windows 7 (32/64 bits), Windows 10 (32/64 bits)

Configuration
Web Browser, DIACom, Android/iOS App

POWER REQUIREMENTS
- Input Voltage: 12 to 48V_{DC}, 2 pin terminal block input
- Input Current: Max. 0.6A

- Overload Current Protection: Present, Max. Input current 2.5A

- Reverse Polarity Protection: Present

PHYSICAL

- Housing: IP40 metal case

- Dimensions: 145.3 mm(H) x 45 mm(W) x 115.7 mm (D)

- Installation: Industrial DIN-Rail and Wall mounting

ENVIRONMENTAL LIMITS

- Operating Temperature : -20℃ to 75℃(-4℉ to 167℉)

- Storage Temperature: -40℃ to 85℃ (-40℉ to 185℉)

- Ambient Relative Humidity: 5% to 95%(non-condensing)

APPROVALS

- Safety: UL 61010, IEC 62368-1

- EMI: FCC 47 CFR Part 15 Subpart B Class B, IEC 61000-6-4, EN 55032, EN 55011, EN 301 489-1/52, UKCA

- EMS (EN 301 489-1/52, IEC 61000-6-2, EN 55035, UKCA): IEC 61000-4-2, IEC 6 1000-4-3 , IEC 6 1000-4-4, IEC 6 1000-4-5 , IEC 6 1000-4-6 , IEC 6 1000-4-8

- RF: EN 50385; EN 301 511; EN 301 908-1; FCC Part 22H, 24E, 27; NCC; UKCA

- Hi-Pot: 1.5KV