



EIOT-ET0X (CPE) series industrial routing

Product specification



| Version number | Revision time | Amendments | Revisions |
|----------------|---------------|------------|---------------|
| V1.0 | 20230525 | Herman | First written |
| | | | |
| Y/16/44 | | | |

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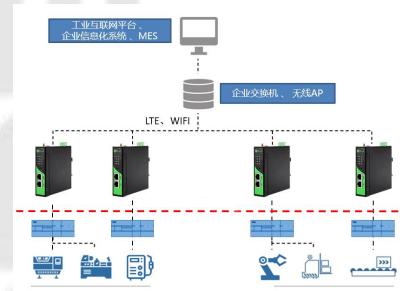


Product description

EIoT-ETOX (CPE) series products are new industrial routing products with 4G/5G and WiFi functions, which are launched by Yike Company in the field of industrial internet and Internet of things. The product combines different versions to support main stream 4G wireless networks, 5G wireless networks, WIFI networking and a variety of broadband network connectivity services, ensure that the target device completes industrial Internet applications such as network access and data connectivity. Products with strong data trans mission security and wireless network management and coverage services to meet the typical industrial internet edge layer field equipment networking and data aggregation needs, helping to bring collaborative and innovative applications to the "Edge Cloud".

The product comes complete with web-side configuration management software for managing and configuring networks. Support to view system status, including host name, model, architecture, firmware version, kernel version, local time, runtime, average load, memory usage, etc. It is equipped with network firewall and VPN by default, and it can enhance the security and stability of data transmission by TLS encryption technology.

Application Framework



EIOT-ETOX (CPE) series industrial routing products, for equipment remote operation and maintenance, data collection, network communication design, using embedded design, product security and stability, long-term work in customer sites, the equipment can be installed in the main PLC equipment, serial port support equipment, network port support equipment node, realize equipment networking, widely used in industrial internet, computer room air-conditioning control, energy consumption and other scenarios, it can realize on-line management of equipment and field situation, and satisfy various requirements of customers.

Product features

1. Hardware configuration

- Embedded design, product safety and stability, 7 * 24h uninterrupted work;
- Industrial style metal housing, support lug installation or guide rail installation, IP20 protection grade;
- > The local host supports Reload reset button, the device is running, the network is abnormal



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fast recovery;

- > Support multiple status lights, including PWRR, Sys, Singal, 485T/R, 232T/R, WiFi, 4G/5g and so on, to feedback network communication status, serial communication status, power status and so on
- Support plug-and-pull iot card to meet the needs of field construction and easy maintenance;
- ➤ Configuration of 4G, 5G all-network modules, while supporting external 4G, 5G communication antenna, adjust signal gain to ensure the safety and stability of wireless communication network signals;
- ➤ 4G, 5G, WiFi, 4G + WiFi, 5G + WiFi versions are optional
- ➤ With WiFi module, support 2.4G and 5G antenna band SMA interface;
- ➤ 880mhz DURL Core processor with 256MB of RAM and 32mb of Flash
- With 5 Gigabit Ethernet port, support 1 WAN port, 4 Lan Port, industrial router function;
- > Support for up to 128GB external TF card storage, increased field data storage;
- Support 1-way RS485,1-way RS232 interface;
- > Supports Debug interface in the form of Mirco USB interface.

2. Gateway features

- > Support for TLS wireless data transmission encryption
- Support NTP timing;
- > Network firewall, NAT, port mapping
- Products embedded software and hardware watchdog to ensure the stable operation of equipment;
- ➤ WLAN Port Support Protocol standard: IEEE 802.11 ac/a/b/g/N, security features: open system, shared key, WPA/WPA2 authentication, WEP/TKIP/AES encryption, working mode: AP, STA working mode;
- Support network intelligent diagnosis function, confirm the current state of the network.

3. Supporting software

- With the web configuration management interface, you can achieve the management of industrial routing and configuration. Support to view host name, model, architecture, firmware version, kernel version, local time, runtime, average load, memory usage, etc.
- Wan Port Network with DHCP, static configuration;
- > VLAN port has mark, Switch, DHCP, static configuration function
- ➤ With network diagnosis, firewall (port forwarding, communication rules: TCP + UDP, TCP, UDP, ICMP) functions;
- ➤ WiFi with AP and STA mode;
- > VPN support for sever and client configuration
- Support parameter backup and local and remote upgrade;
- Support for recovery of factory settings, recovery of configuration settings, system restart;

4. Communication

- > Optional 4G Wireless + Internet
- > Optional 5G wireless communication + Internet communication;
- Optional wi-fi + Internet
- > Optional 4G + WIFI wireless communication mode + Internet communication mode;
- > 5G + WIFI + Internet

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Product specifications

| Product specifica | UUIIS | |
|------------------------------------|---|--|
| Hardware parameters | DOI 0 2011 | |
| VDD | DC10-30V, typical supply DC24V, support overcurrent and reverse protection | |
| Operating temperature and humidity | $-30 ^{\circ}$ C $\sim +60 ^{\circ}$ C/5 $\sim 95\%$ RH without dew | |
| Storage temperature and humidity | -40 ° C ~ + 85 ° C/5 ~ 95% RH without dew | |
| Product dimensions | L * W * H (mm) : 125X112X30 | |
| Protection level | IP20 | |
| Interface parameters | | |
| Power interface | Terminal power supply | |
| RS485 * 1 | 2 lines (A/B) Electrical isolation: supported Baud rate: 2,400-115,200 bps Data Bits: 7-8 bits Stop Bits: 1,2 bits Check Bits: None, Even, Odd | |
| RS232 * 1 | Frame length: minimum 6byte, maximum 499byte 3 lines (RX/TX/GND) Electrical isolation: supported Baud rate: 2,400-115,200 bps Data Bits: 7-8 bits Stop Bits: 1,2 bits Check Bits: None, Even, Odd Frame length: minimum 6byte, maximum 499byte | |
| Wan * 1 | 10/100/1000M adaptive support | |
| LAN * 4 | 10/100/1000M adaptive support | |
| SMA * 1 ~ 5 | External spiral inner hole antenna terminal, impedance matching 50Ω | |
| SIM card slot * 1 | Standard MINI SIM slot | |
| Mini USB port | Equipment debugging | |
| Reload button | Press for about 5 seconds, the device to restore the default configuration, and the device restart | |
| Lights | 10 working status indicators, PWR, 4G/5G, RS232, RS485, Sys. | |
| Network parameters | , | |
| Communication standards | 4g | |
| Communications | WCDMA, TD-SCDMA, CDMA EVDO/1x LTE-FDD, LTE-TDD, GSM | |
| Standard frequency band | GSM B 3, B 8 CDMA1X CDMA EVDO 800M WCDMA B1, B5, B8 TD-SCDMA B34,39 LTE FDD B1, b3, B5, B8 LTE TDD B38, B39, B40, B41 | |
| Transmit Power | LTE-TDD: 23 ± 2.7 dbm LTE-FDD: 23 ± 2.7 dbm WCDMA: 24 + 1/-3 dBm TD-SCDMA: 24 + 1/-3 dBm CDMA BC0:23 ~ 30 dBm GSM BAND8:33 ± 2DBM GSM BAND3:30 ± 2 dbm | |
| Mary Mary | • GSM BAND3:30 \pm 2 dbm | |
| Communication | | |
| Communication standards | • GSM BAND3:30 ± 2 dbm 5G | |



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| | 5G Nr (SA/NSA) , Nr | |
|-------------------------|--|--|
| | | |
| Standard frequency band | ● WCDMA/HSPA + : Band 1,2,5,8 | |
| | • LTE FDD: Band 1,2,3,5,7,8 | |
| | • LTE TDD: Band 34,38,39,40,41 | |
| | • 5G NR supports SA/NSA | |
| | • NR: N1, N281, N41, N78, N79 | |
| Power rating | • Class 3(23.5 dbm ± 1.5 db) for WCDMA bands | |
| | • Class $3(23dBm \pm 1.5 db)$ for LTE bands | |
| | • Class 3(23dBm ± 1.5 db) for NR SUB6 bands | |
| | • Class 2(26 DBM \pm 1.5.DB) for B41/N41/78/79 bands | |

Indicator status description

| Symbols | Functional definition | Indicates the status | Indicator color |
|---------|--------------------------|----------------------|-------------------------------|
| Pwr | Power indication | Chang Liang | Work normally |
| | (Green) | - | Not Normal |
| SIGNAL | Network status indicator | 2 Chang Liang | Signal is good |
| | | 1 Chang Liang | The signal is average |
| | | - | No signal |
| RS232 | RS232 data indicator | Twinkle | Sending and receiving data |
| | light | put out | Unsent |
| RS485 | RS485 data indicator | Twinkle | Sending and receiving data |
| | light | put out | Unsent |
| WiFi | Network signal strength | Chang Liang | Internet connection is normal |
| | indicator lamp | put out | Not connected |
| Sys. | CVC status in diseases | Chang Liang | System Normal |
| | SYS status indicator | put out | System failure |

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Product model

| | EIoT-ET0X industrial router (compatible with CPE) |
|----------------------|--|
| Hardware platform | n |
| Models | Eiot-et05 |
| CPU | 880mhz Durl Core |
| Memory | 256M DDR2 |
| Flash | 32M Flash |
| Interface | |
| Ethernet | 5x Wan/Lan |
| Ethernet | 10/100/1000 Mbps RJ45 |
| Carial mant | RS-232 x 1,3 line terminal interface, baud rate 2400 ~ 115200 bps, ESD 15 kv |
| Serial port | RS-485 x 1,3 line terminal interface, baud rate 2400 ~ 115200bps, ESD 15KV |
| SIM card | 1x standard SIM card |
| Reset function | Pin-hole reset key |
| Memory extension | 1x TF slot, 128GB MAX |
| Antenna (SMA number) | five |
| Wireless | |
| WIFI | |





| 5G | • |
|--------------------------|---|
| 4G | • |
| Machinery | |
| Installation | Wall-mounted/DIN rails |
| The shell | Sheet metal shell |
| Cooling | Natural wind cooling |
| IP protection level | IP20 |
| The equipment is powered | |
| Power input | DC 10-30V (typical DC 24V/2A) |
| Power interface | Pluggable Terminal |
| Power protection | Overcurrent protection, short circuit protection, reverse polarity protection |
| Working Environment | |
| Operating temperatur e | -30-60 OC |
| Store temperatur e | -40-85 |





| Ambient humidity | 5-95% RH@40OC/104OF no condensation |
|------------------|--|
| Lights | |
| Led | Sys, PWR, WiFi, 4G/5G, 485,232, SIGNAL |

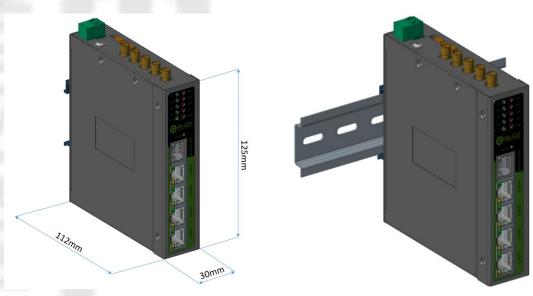




Product interface and dimensions



Product interface



Product dimensions



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