**CGG100**

**Introduction**

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CGG100 is an industrial serial gateway device with rich functions. Based on the industrial application design, the equipment is simple in structure, fast in installation, convenient in maintenance, and can operate without fault for a long time under the environment of strong magnetic interference and abnormal temperature. It is usually deployed in the machine rooms of substations, hydropower stations, etc.

The CGG100 product supports IEC104 protocol standard, and can realize the transmission of serial data encapsulated in TCP/IP protocol in the IP network, provide the ability to access the Internet network for serial devices without TCP/IP function, and realize the need for administrators to remotely manage serial devices through the IP network.

CGG100 device supports RSA encryption system and national secret encryption system, and has extremely strong VPN functions of data encryption and authentication. It provides a private and secure virtual channel for users' serial device data transmission on the Internet, and meets the requirements of remote control and management of users' serial device.

**Product appearance**

|  |  |  |
| --- | --- | --- |
| Name | Introduction | Applicable scenario |
| 斜角照片  **CGG100** | Industrial Edge Gateway  Portable and easy installation  880MHz CPU  128M RAM  16M flash | Industrial serial gateway |

**Key Features and Values**

**Edge access, safe and reliable**

1. Support TCP protocol encapsulation and transparent serial port data
2. Support IPSec VPN to realize encryption, authentication and secure transmission of transparent data
3. Support the simultaneous operation of serial port RS232 and RS485 (channel isolation, without switching)

**Industrial-grade design, excellent quality**

1. No fan design, stable operation between - 10 ℃ and 50 ℃
2. Fault free operation under strong magnetic interference
3. Meet the operation environment standard of substation

**Rich interfaces and flexible deployment**

1. Supports LTE FDD and LTE TDD, and is compatible with WCDMA/GPRS/GSM
2. Integrate Ethernet interface, RS232 and RS485 interfaces, and flexibly deploy equipment according to site requirements

**Easy installation, simple operation and maintenance**

1. Wall-mounted design, easy installation
2. Visual configuration mode, more friendly interface

**Product specification**

|  |  |  |
| --- | --- | --- |
| **Name** | | **CGG100** |
| **Hardware parameters** | | |
| **hardware** | CPU | MTK7621 |
| CPU Cores | 2 |
| CPU frequency | 880MHz |
| FLASH | 16M |
| RAM | 128M |
| Memory form | Particles/curing |
| **Indicator** | System indicator | 1 |
| 3G/4G status indicator | 1 |
| IPSec VPN status indicator | 1 |
| Warning lamp | 1 |
| **Fixed interface** | cellular | 1 |
| LAN(Ethernet) | 1 \* GE, 10/100/1000Mbit/s adaptive |
| WAN(Ethernet) | 1 \* GE, 10/100/1000Mbit/s adaptive |
| RS232(3PIN) | 1 |
| RS485(3PIN) | 1 |
| USB\_Console(EndPoint) | 1 |
| SIM | Nano\*1 |
| Reset | 1 |
| **Antenna** | 4G antenna | SMA\*2 |
| **Pwoer** | Numbers | 1 |
| Installation form | adapter |
| Input voltage/frequency | AC 100-240V/50-60HZ |
| Output voltage/current | DC 12V-48V/2A |
| **Work environment** | working temperature | -10~50℃ |
| Waterproof grade | NA |
| **Device style** | Outlet | Front insertion |
| Antenna | SMA\*2 |
| duct | Left in and right out |
| Installation method | Wall-mounted |
| Overall size | 40mm×110mm×78mm |
| **Software parameters** | | |
| Basic characteristics | | IPv4、TCP/UDP、ARP、ICMP、DHCP |
| Safety characteristics | | IP/MAC Binding、MAC Filter、NAT |
| Routing management | | Static routing |
| VPN | | IPSec VPN |
| Collocation method | | HTTP、HTTPS |
| Firmware management | | Web |
| System management | | Log、Status monitoring |