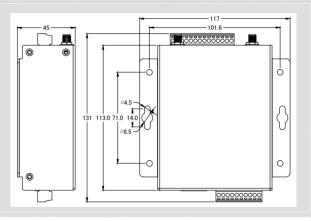
M2M Series Products

4G Gateway





GRP-540M Series

Dimensions

The GRP-540M provided by ICP DAS is a 4G gateway for Ethernet, serial port, and CAN. With GPS function, it can also be a GPS tracking system. It can be used in M2M application fields to transfer the remote I/O, Modbus data or video of the camera via 4G/3G/2G. Within the high performance CPU, the GRP-540M series can handle a large of data and are suit for the hard industrial environment. The GRP-540M have 4G module, Ethernet interface, and GPS module.

Features

- Support 4G FDD LTE / TDD LTE
- Support 3G WCDMA / TD-SCDMA
- Support 2G GSM
- 10/100 Base-TX compatible Ethernet controller
- Support CAN
- GPS: 32 channels with All-In-View tracking

- Support Micro SD card.
- Provide 4G Router function.
- Provide port mapping function.
- Serial Port to 4G Gateway Function
- High reliability in harsh environments
- DIN-Rail mountable

Application





Hardware Specifications

| Item | GRP-540M-4GE | GRP-540M-4GA | GRP-540M-4GC |
|--|--|----------------------------|--------------------|
| Software | | | |
| Gateway Function | Ethernet and Serial port (| RS-232 x1, RS-485 x1) to | 3G |
| Embedded service | Web Server, 3G Router | | |
| | web server, so Router | | |
| System | | | |
| CPU | ARM CPU | | |
| EEPROM | 16 KB (Data Retention: 40 years; 1,000,000 erase/write cycles) | | |
| Expansion Flash Memory RTC(Real Time Clock) | SD Card (Max. 32GB SDHC)Provide seconds, minutes, hours, day of week/month, month and year | | |
| 64-bit Hardware Serial Number | Yes | | |
| Watchdog Timer | Yes | | |
| LED Indicator | 4 LEDs (RUN/PWR, 4G, L1, L2) | | |
| Rotary Switch | Yes (0~9) | | |
| GSM System | | | |
| Frequency Band | GSM : 850/900/1800/190 | 0 MH2 | |
| GPRS connectivity | GPRS class 12/10; GPRS station class B | | |
| DATA GPRS | Downlink transfer: Max. 85.6 kbps; Uplink transfer: Max 42.8kbps | | |
| 3G System | Downlink transfer. Max. | 05.0 kops, opinik transfer | 1010x 42.0K0p3 |
| Frequency Band (MHz) | WCDMA | WCDMA | WCDMA 900/2100 |
| Frequency Band (MHZ) | 850/900/2100 | 850/1700/1900 | TD-SCDMA 1900/2100 |
| | | | |
| Data Transmission | DC-HSPA+ Download: Max. 42 Mbps; Upload: Max 5.76Mbps TD-SCDMA Download: Max. 4.2 Mbps; Upload: Max 2.2Mbps | | |
| 4G System | | I | <u>-</u> |
| Frequency Band | | | FDD LTE: B1/B3/B8 |
| Trequency Bana | FDD LTE: | FDD LTE: | TDD LTE: |
| | B1/B3/B5/B7/B8/B20 | B2/B4/B5/B12/B17 | B38/B39/B40/B41 |
| Data Transmission | Download Max 100Mbps | / Upload Max 50Mbps | |
| GPS System | | | |
| Support Channels | 32 | | |
| Protocol Support | NMEA 0183 | | |
| Comm. Interface | | | |
| | RJ-45, 10/100 Base-TX | | |
| Ethernet | (Auto-negotiating, Auto MDI/MDI-X, LED indicators) | | |
| COM1 | RS-232 (RxD, TxD and GND); Non-isolated(Console, Debug) | | |
| COM2 | RS-232 (RxD, TxD and GND); Non-isolated | | |
| COM3 | RS-485 (D2+, D2-); 3000 VDC isolated | | |
| CAN | CAN Bus (CAN_H, CAN_L) | | |
| Mechanism | | | |
| Casing | Metal | | |
| Dimensions(W x L x H) | 117 mm x 126 mm x 58 mm (W x L x H) | | |
| Installation | DIN-Rail / Screw | | |
| | Din-Rail / Sciew | | |
| Power | | | |
| Protection | Power reverse polarity protection | | |
| Frame Ground Protection | ESD, Surge, EFT, Hi-Pot | | |
| Required Supply Voltage | $+10 V_{DC} \sim +48 V_{DC}$ | | |
| Power Consumption | 4.8W (200 mA @ 24 V _D | c) | |
| Environment | | | |
| Operation Temp. | -25°C to 75°C | | |
| Storage Temp. | -30℃ to 80℃ | | |
| Humidity | 5~95% non-condensing | | |