



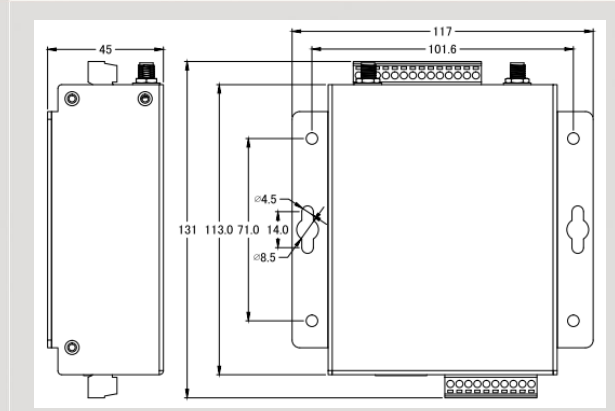
# M2M Series Products



## 3G Gateway



GRP-530M



Dimensions

The GRP-530M provided by ICP DAS is a 3G gateway for Ethernet, serial port, and CAN. With GPS function, the GRP-530M 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 3G/2G. Within the high performance CPU, the GRP-530M series can handle a large of data and are suit for the hard industrial environment. The GRP-530M have 3G module, Ethernet interface, and GPS module.

### Features

- Support WCDMA 850/900/1900/2100 MHz
- Support GSM 850 / 900 / 1800 / 1900 MHz.
- 10/100 Base-TX compatible Ethernet controller
- COM port: COM1 (Debug Port), COM2 (RS-232), COM3 (3-wire RS-485)
- Support CAN
- GPS : 32 channels with All-In-View tracking
- Support Micro SD card.
- Provide 3G Router function.
- Provide port mapping function.
- Serial Port to 3G Gateway Function
- High reliability in harsh environments
- DIN-Rail mountable

### Application





## Hardware Specifications

Item	GRP-530M
<b>Software</b>	
3G Gateway	Ethernet and Serial port (RS-232 x1, RS-485 x1) to 3G
Embedded service	Web Server, 3G Router
<b>System</b>	
CPU	ARM CPU
EEPROM	16 KB (Data Retention: 40 years; 1,000,000 erase/write cycles)
Expansion Flash Memory	SD Card (Max. 32GB SDHC)
RTC(Real Time Clock)	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, 3G, L1, L2)
Rotary Switch	Yes (0~9)
<b>GSM System</b>	
Frequency Band	GSM : 850/900/1800/1900 MHz
GPRS connectivity	GPRS class 12/10; GPRS station class B
DATA GPRS	Downlink transfer: Max. 85.6 kbps; Uplink transfer: Max 42.8kbps
<b>3G System</b>	
Frequency Band	WCDMA 850/900/1900/2100 MHz
Data Transmission	WCDMA / HSPA+ Download: Max. 14.4Mbps; Upload: Max 5.76Mbps
<b>GPS System</b>	
Support Channels	32
Protocol Support	NMEA 0183
<b>Comm. Interface</b>	
Ethernet	RJ-45, 10/100/1000 Base-TX (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)
<b>Mechanism</b>	
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
<b>Power</b>	
Protection	Power reverse polarity protection
Frame Ground Protection	ESD, Surge, EFT, Hi-Pot
Required Supply Voltage	+10 V <sub>DC</sub> ~ +48 V <sub>DC</sub>
Power Consumption	4.8W ( 200 mA @ 24 V <sub>DC</sub> )
<b>Environment</b>	
Operation Temp.	-25°C to 75°C
Storage Temp.	-30°C to 80°C
Humidity	5~95% non-condensing