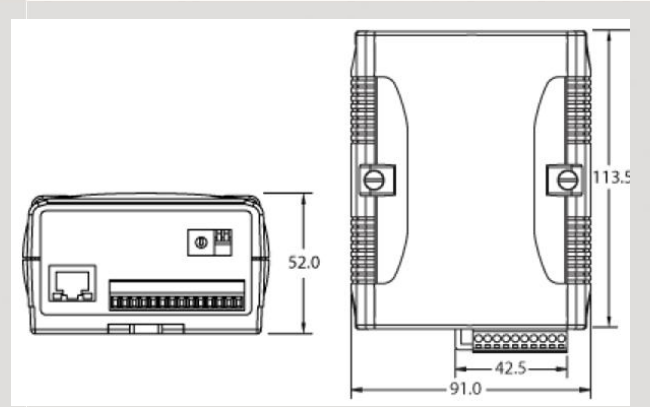




3G Gateway



GRP-520



Dimensions

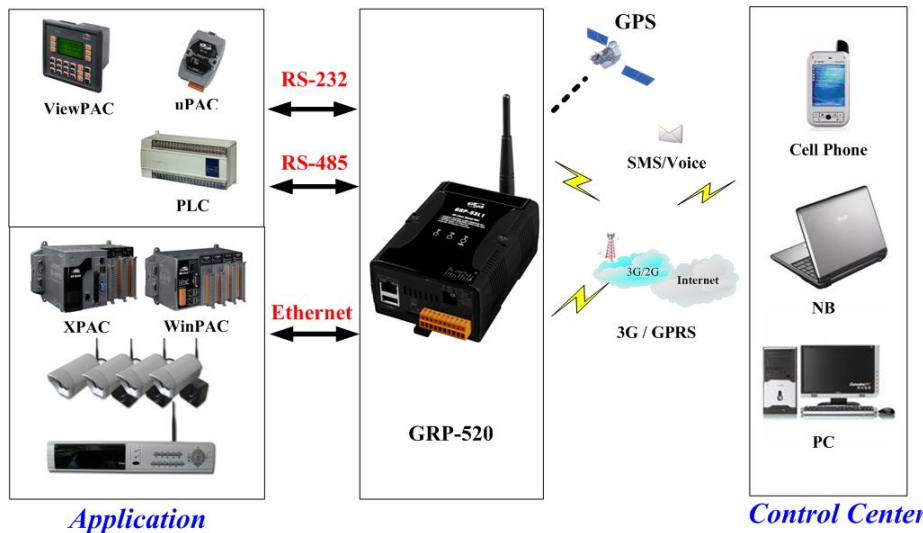
The GRP-520 provided by ICP DAS is a 3G gateway for Ethernet or serial port. With optional GPS model, the GRP-520 can also be a GPS tracking system. It can be used in M2M application fields to transfer the remote I/O, Modbus data or video of the camera via 3G/2G. Within the high performance CPU, the GRP-520 series can handle a large of data and are suit for the hard industrial environment. The GRP-520 series have 3G module, Ethernet interface, and optional GPS module.

Features

- Support WCDMA 2100/1900/850 MHz
- Support GSM 850 / 900 / 1800 / 1900 MHz.
- 10/100 Base-TX compatible ethernet controller
- COM port: COM1 (3-wire RS232), COM2 (RS-485), COM3 (3-wire RS232)
- Support Micro SD card.
- GPS : 32 channels with All-In-View tracking (option)
- Provide 3G Router function.
- Support port mapping function.
- Provide Serial Port to 3G Gateway
- High reliability in harsh environments
- DIN-Rail mountable

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Application





Hardware Specifications

Item	GRP-520
Software	
3G Gateway	Ethernet and Serial port (1x RS-232, 1x RS-485) to 3G
Embedded service	Web Server, 3G router
System	
CPU	ARM CPU (312MHz)
SRAM	64 MB
Flash	64 MB
EEPROM	16 KB (Data Retention: 40 years; 1,000,000 erase/write cycles)
Expansion Flash Memory	SD Card (Max. 32GB SDHC)
Expansion Disk	USB disk (format : FAT32)
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	3 LEDs (SYS/PWR, F.W., 3G)
Rotary Switch	Yes (0~9)
GSM System	
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
3G System	
Frequency Band	WCDMA 2100/1900/850 MHz
Data Transmission	WCDMA / HSDPA / HSUPA Downlink transfer: Max. 7.2Mbps; Uplink transfer: Max 5.76Mbps
GPS System (option)	
Support Channels	32
Protocol Support	NMEA 0183 version 3.01
Comm. Interface	
Ethernet	RJ-45, 10/100 Base-TX (Auto-negotiating, Auto MDI/MDI-X, LED indicators)
COM1	RS-232 (RxD, TxD and GND); Non-isolated(Console)
COM2	RS-485 (D2+, D2-); 3000 VDC isolated
COM3	RS-232 (RxD, TxD and GND); Non-isolated
Mechanism	
Casing	Plastic
Dimensions(W x L x H)	91 mm x 132 mm x 52 mm (W x L x H)
Installation	DIN-Rail
Power	
Protection	Power reverse polarity protection
Frame Ground Protection	ESD, Surge, EFT, Hi-Pot
Required Supply Voltage	+10 V _{DC} ~ +30 V _{DC}
Power Consumption	4.8W (200 mA @ 24 V _{DC})
Environment	
Operation Temp.	-25°C to 75°C
Storage Temp.	-30°C to 80°C
Humidity	5~95% non-condensing