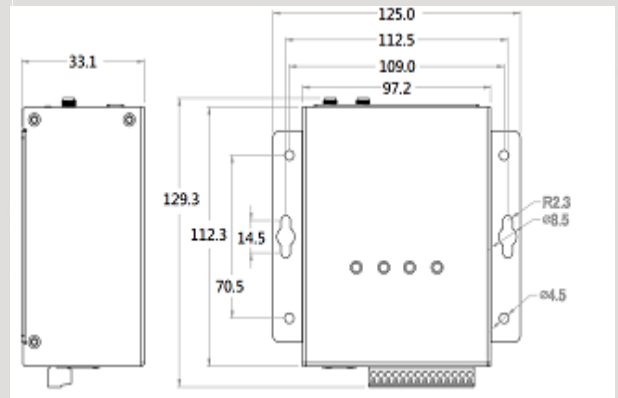




Intelligent 4G Remote Terminal Unit



GTP-541M



Dimensions

GTP-541P-UDR is an intelligent Active 4G Remote Terminal Unit. It can be used in M2M application fields to transfer the local I/O or Modbus device's data via WCDMA/GPRS by the defined period or DI/AI triggers. The local I/O data can also be stored in the micro SD card to become a remote data logger. With The simple I/O linkage function, GTP-541P-UDR can reach the real time control in local field.

Features

- Support LTE band B1/B3/B8/B38/B39/B40/B41
- Support WCDMA 900/2100 MHz
- Support GSM 900 / 1800 MHz.
- COM port: COM1 (RS-232 Debug Port), COM2 (3-wire RS-485)
- I/O: 5 channel DI , 4 channel AI , 2 channel DO
- GPS : Support UDR Function
- Support Micro SD card.
- Provide 4G RTU function.
- Serial Port to 4G Gateway Function
- High reliability in harsh environments
- DIN-Rail mountable

Application

I/O	Channel number	Specification
DI	5	Input type : Sink or Source, Isolated channel with common power or ground On Voltage : +3.5V ~ +24V Off Voltage : +1V Max
DO	2	Output type : Isolation Load Voltage : +24V Max. Load Current : 100mA Max
AI	4	Resolution : 16-bit Input Range/Type : +10V ~ -10V Sample Rate : 1KHz Max

Application





Hardware Specifications

Item	GTP-541M
Software	
4G RTU	Serial port (RS-232 x1, RS-485 x1) to 4G
System	
CPU	ARM CPU
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 (PWR, 4G, STA, GPS)
GSM System	
Frequency Band	GSM : 900/1800 MHz
GPRS connectivity	GPRS class 12/10; GPRS station class B
DATA GPRS	Downlink transfer: Max. 236.8 kbps; Uplink transfer: Max 236.8kbps
3G System	
Frequency Band	WCDMA 900/2100 MHz
Data Transmission	WCDMA / HSPA+ Download: Max. 42Mbps; Upload: Max 5.76Mbps
4G System	
Frequency Band	Three-Band FDD-LTE : B1/B3/B8 Four-Band TDD-LTE : B38/B39/B40/B41
Data Transmission	FDD-LTE Download: Max. 100Mbps; Upload: Max 50Mbps TDD-LTE Download: Max. 80Mbps; Upload: Max 18Mbps
GPS System	
Support Channels	32
Protocol Support	NMEA 0183
	Support Untethered 3D Dead Reckoning (UDR)
Comm. Interface	
COM1	RS-232 (RxD, TxD and GND); Non-isolated(Console, Debug)
COM2	RS-485 (D2+, D2-); 3000 VDC isolated
Mechanism	
Casing	Metal
Dimensions(W x L x H)	113 mm x 125 mm x 34 mm (W x L x H)
Installation	DIN-Rail / Screw
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	
Required Supply Voltage	Operation : -25 to 75°C; Storage Temp : -40 to 80 °C
Power Consumption	5~95% non-condensing