



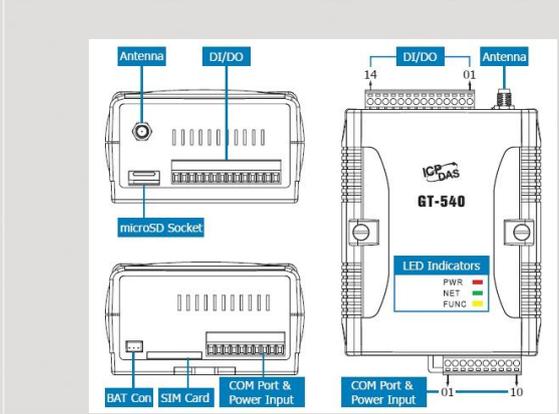
# M2M Series Products



## Intelligent GPRS Remote Terminal Unit with GPS



GT-540P



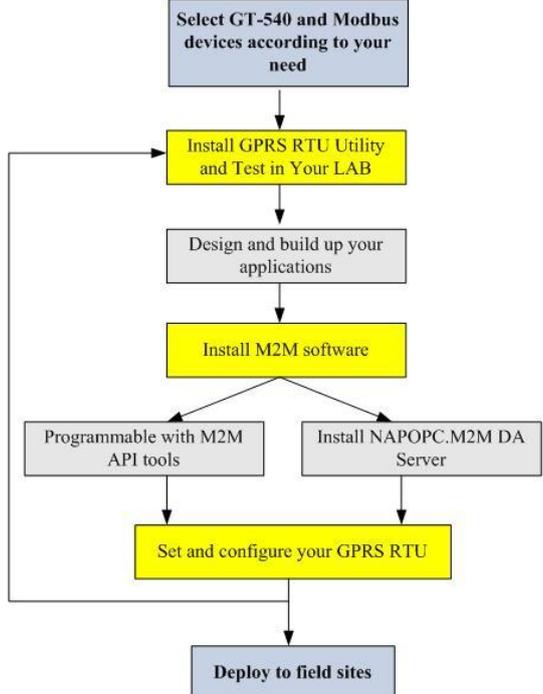
Dimensions

The GT-540P is an intelligent Active GPRS Remote Terminal Unit with GPS. It can be used in M2M application fields to transfer the local I/O, GPS and Modbus device data via GPRS by the defined period or DI/AI triggers. The local I/O and GPS data can also be stored in the SD card to become a remote data logger. In addition, the GT-540P offers the e-mail mode to transfer the data by e-mail via GPRS for users to choose. With The simple I/O linkage function, the GT-540P can also reach the real time control in local field.

### Features

- Built-in 32 bit CPU
- COM port: COM1 (5-wire RS232), COM2 (RS-485),
- I/O: 6 channel DI, 2 channel DO, 1 channel AI
- Support SD storage card
- Quad-band 850/900/1800/1900 MHz
- Automatic/continuous GPRS Link Management
- Support Modbus RTU protocol to connect to Max 3 Modbus RTU devices via RS-485 port
- Support I/O data logger file transferring by E-mail
- Support M2M.OPC server and M2M.API tools
- Local I/O linkage function to make the simple local control
- Support GPS function
- Support 3.7V 600 mAH Li-battery

### Application flow chart



### I/O Interface

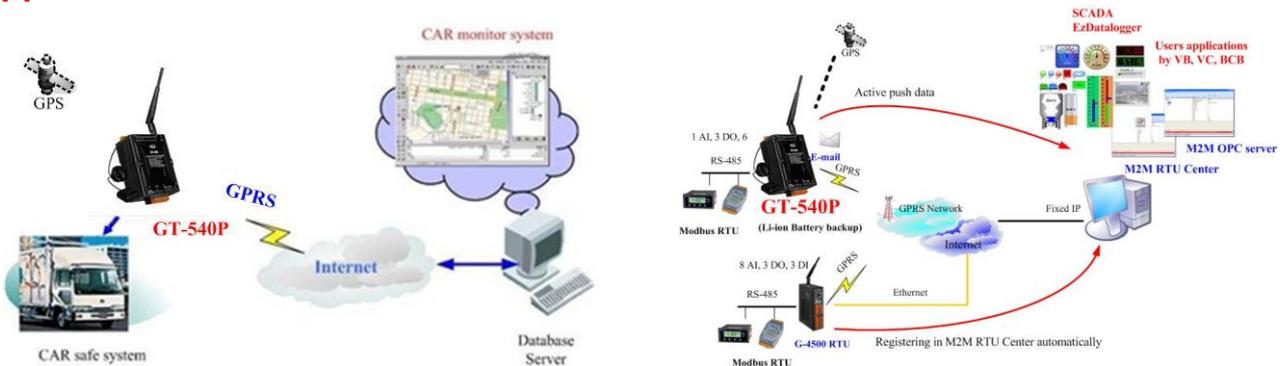
I/O	Channel number	Specification
DO	2	Output type : Open-Collector (NPN) Load Voltage: +30V Max. Load Current : 100mA Max
DI	6	Input type : Sink or Source, Isolated channel with common power or ground On Voltage : +3.5V~+30V Off Voltage : +1V Max
AI	1	Resolution : 12-bit Input Range/Type : 0~20mA Sample Rate : 1KHz Max

## Hardware Specifications

<b>System</b>	
CPU	32 bit, Microprocessor inside
<b>Comm. Interface</b>	
COM ports	COM1: TxD,RxD,GND for configuration; COM2: RS-485;
<b>GPRS Interface</b>	
Frequency Band	Quad-Band 850/900/1800/1900 MHz; GPRS multi-slot : class 10/8
GPRS connectivity	GPRS class 10; GPRS station class B; GPRS class 10
DATA GPRS	Downlink transfer:max 85.6 kbps; Uplink transfer : max 42.8kbps
<b>GPS Interface</b>	
General	16 channels with All-In-View tracking; Built-in high gain amplifier and bandpass filter; Extra high sensitivity: -159dBm
Acquisition Time	Cold/Warm Time: 42 / 35 sec. at open sky and stationary
Reacquisition Time	0.1 second
<b>General</b>	
Power Requirement	Unregulated +10V DC ~ +30V DC. Support 3.7V 600 mA H Li-battery
Power Consumption	Idle: 75 mA @ 24 V <sub>DC</sub> ; Data Link: 180 mA @ 24 V <sub>DC</sub> ; Peak: 460 mA @ 24 V <sub>DC</sub>
LEDs	4 indicator LEDs
<b>Environment</b>	
Operation Temp.	Operation : -25°C to 75°C; Storage Temp : -40°C to 80°C
Humidity	5~95% non-condensing
Dimensions	91mm x 132mm x 52mm (long*width* high)

LED	Description		
EXT(red)	on	The external Power is active	
	off	The external Power is not active	
STA (orange)		Normal	GSM Fail
	EXT (on)	Blanking (1 sec)	Always on or off
GSM(green)	Blinking	Modem normal	
	off	Modem fail (or Blinking(not 3 sec))	
GPS(green)	Blinking	GPS data is valid	
	on	GPS data is invalid	

## Applications



## Ordering Informaion

**GT-540P CR**

Intelligent GPRS Remote Terminal Unit with GPS (RoHS)