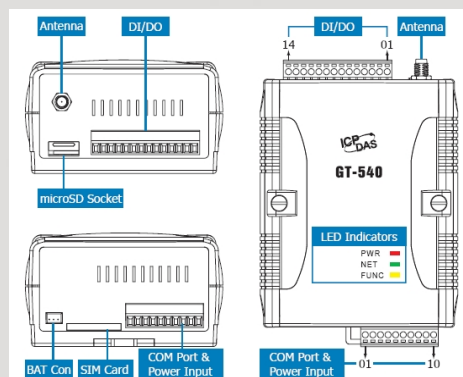




Intelligent GPRS Remote Terminal Unit



GT-540 Series



Dimensions

The GT-540 is an intelligent Active GPRS Remote Terminal Unit. It can be used in M2M application fields to transfer the local I/O or Modbus device's data via GPRS by the defined period or DI/AI triggers. The local I/O data can also be stored in the SD card to become a remote data logger. In addition, the GT-540 also 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-540 can reach the real time control in local field.

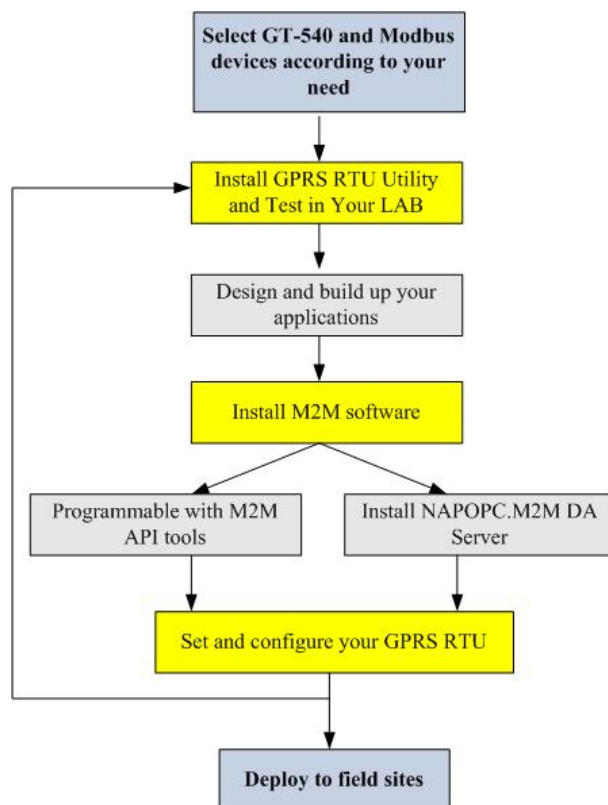
Features

- Built-in 32 bit, 96MHz CPU
- COM port: COM1 (5-wire RS232), COM2 (RS-485),
- I/O: 6 channel DI, 2 channel DO, 1 channel AI
- Support Micro 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 3.7V 600 mAH Li-battery

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

Application flow chart

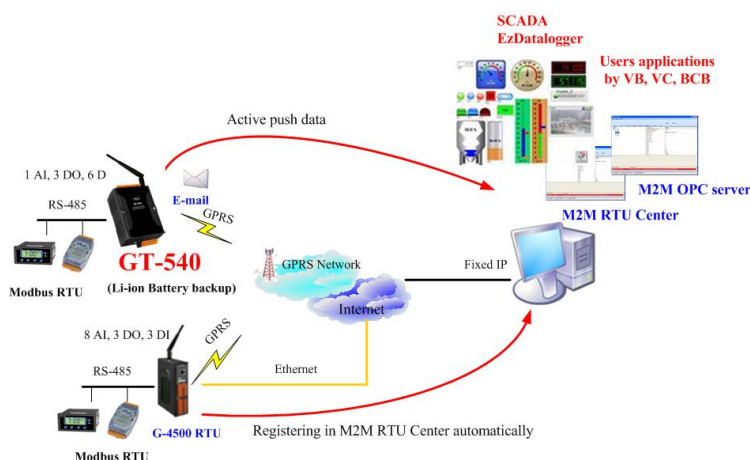
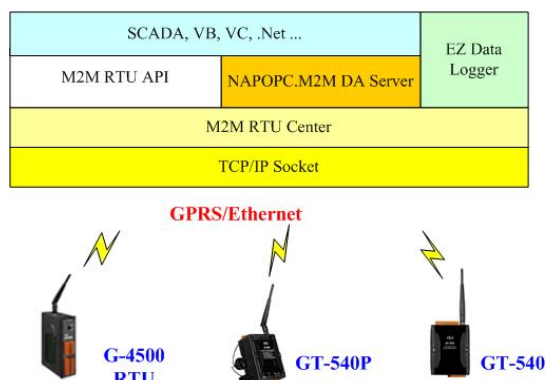


Hardware Specifications

System	
CPU	32 bit, Microprocessor inside with 96MHz
RTC	Gives time(sec, min, hour) & date
WDT(watchdog)	Yes
Micro SD interface	2GB max.
Comm. Interface	
COM ports	COM1: Tx,D,RxD,GND for configuration; COM2: RS-485;
GPRS Interface	
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
SMS	MT, MO, CB, Text and PDU mode
General	
Power Requirement	2W; Unregulated +10V _{DC} ~ +30V _{DC} . Support 3.7V Li-battery backup
LEDs	3 indicator LEDs
Environment	
Operation Temp.	Operation : -25°C to 55°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	PIN code is wrong
	EXT (on)	Blanking (1 sec)	Always on or off	Blinking per 50 ms
GSM(green)	Blinking	Modem normal		
	off	Modem fail (or Blinking(not 3 sec))		

Applications



Ordering Information

GT-540 CR	Intelligent GPRS Remote Terminal Unit (RoHS , include: 2G micro SD card)
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