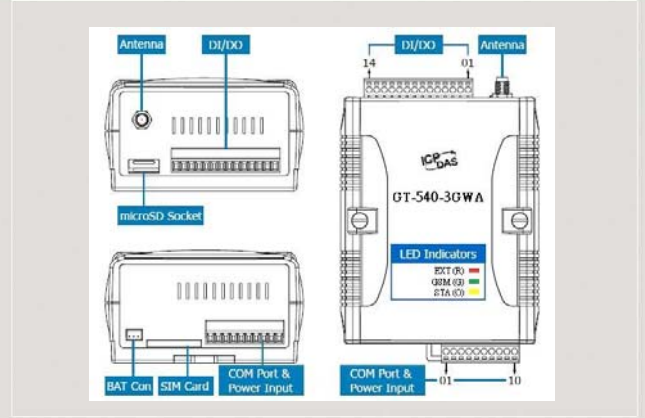




Intelligent 3G Remote Terminal Unit



GT-540-3GWA



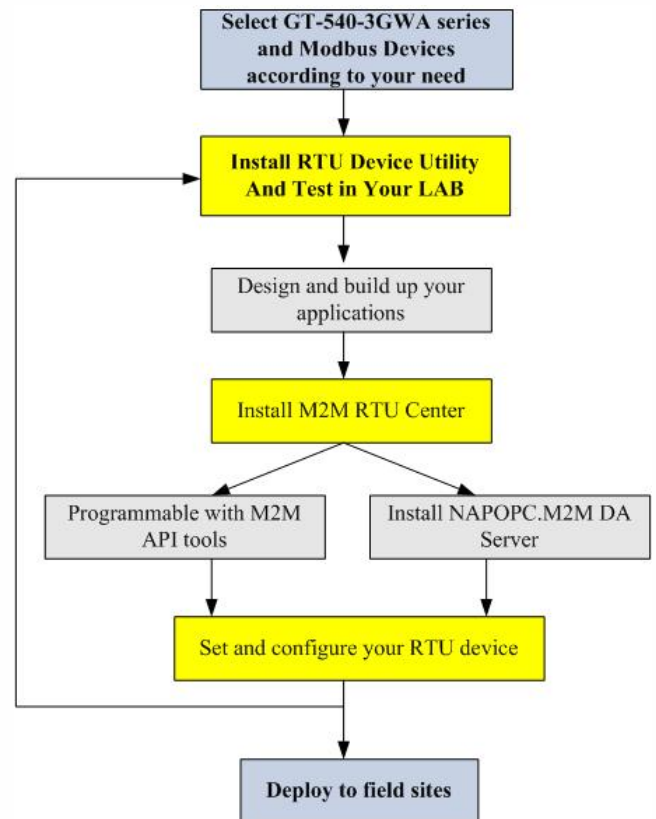
Dimensions

GT-540-3GWA is an intelligent Active 3G 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, GT-540-3GWA can reach the real time control in local field.

Features

- Built-in 32 bit CPU
- COM port: COM1 (3-wire RS232), COM2 (RS-485),
- I/O: 6 channel DI, 2 channel DO, 1 channel AI
- Support Micro SD storage card
- GSM Frequency : 850/900/1800/1900 MHz
- WCDMA Frequency : 850/900/1900/2100 MHz
- Automatic/continuous 2G/3G Link Management
- Support Modbus RTU protocol to connect to Max 3 Modbus RTU devices via RS-485 port
- Support M2M.OPC server and M2M.API tools
- Local I/O linkage function to make the simple local control
- Support 3.7V Li-ion battery backup

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

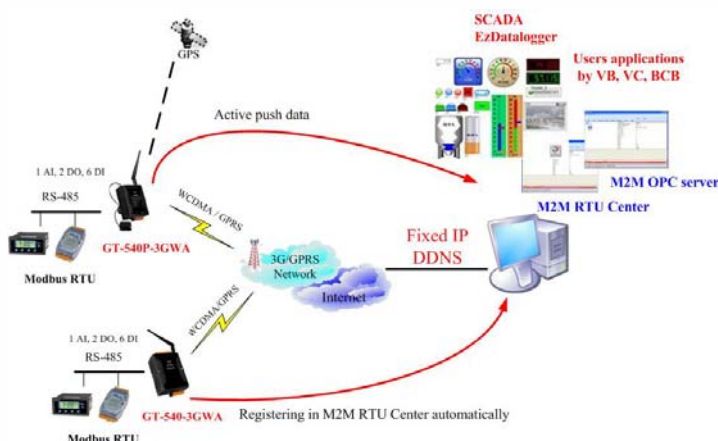
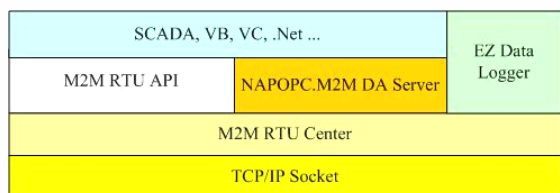


Hardware Specifications

System	
CPU	32 bit, Microprocessor
RTC	Gives time(sec, min, hour) & date
WDT(watchdog)	Yes
Micro SD interface	4GB max.
Serial Ports	
COM ports	COM1: TxD,RxD,GND for configuration; COM2: RS-485 for modbus device;
2G System	
Frequency Band	GSM : 850/900/1800/1900 MHz;
GPRS connectivity	GPRS multi-slot : class 10/8 ; Mobile Station : Class B
Coding Schemes	CS 1, CS 2, CS 3, CS 4
3G System	
Frequency Band	WCDMA : 850/900/1900/2100 MHz
Power class	Class 3(250mW @ WCDMA/HSPA)
General	
Power Requirement	Unregulated +10V _{DC} ~ +30V _{DC} . Support 3.7V Li-battery backup
Power Consumption	Idle: 65 mA @ 24 V _{DC} ; Data Link: 170 mA @ 24 V _{DC} ; Peak: 450 mA @ 24 V _{DC}
LEDs	3 indicator LEDs
Environment	
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)	Blinking (1 sec)	Always on or off
GSM(green)	Blinking	WCDMA : Twinkling twice per 3 sec ; GPRS : Blinking per 3 sec	
	off	Modem fail (or Blinking(not 3 sec))	

Applications



Ordering Information

GT-540-3GWA CR	Intelligent 3G Remote Terminal Unit (RoHS)
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