



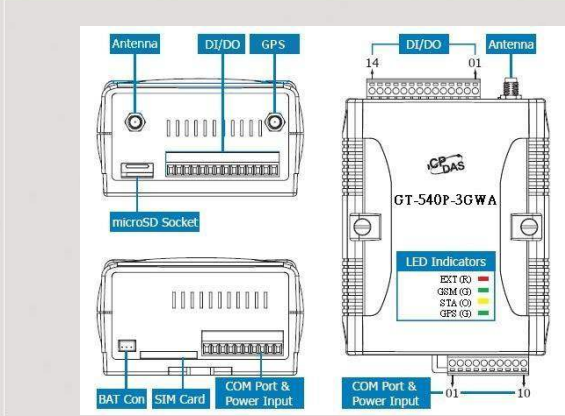
M2M Series Products



Intelligent 3G Remote Terminal Unit with GPS



GT-540P-3GWA



Dimensions

GT-540P-3GWA is an intelligent Active 3G 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 WCDMA/GPRS by the defined period or DI/AI triggers. The local I/O and GPS data can also be stored in the micro SD card to become a remote data logger. With the simple I/O linkage function, GT-540P-3GWA can also reach the real time control in local field.

Features

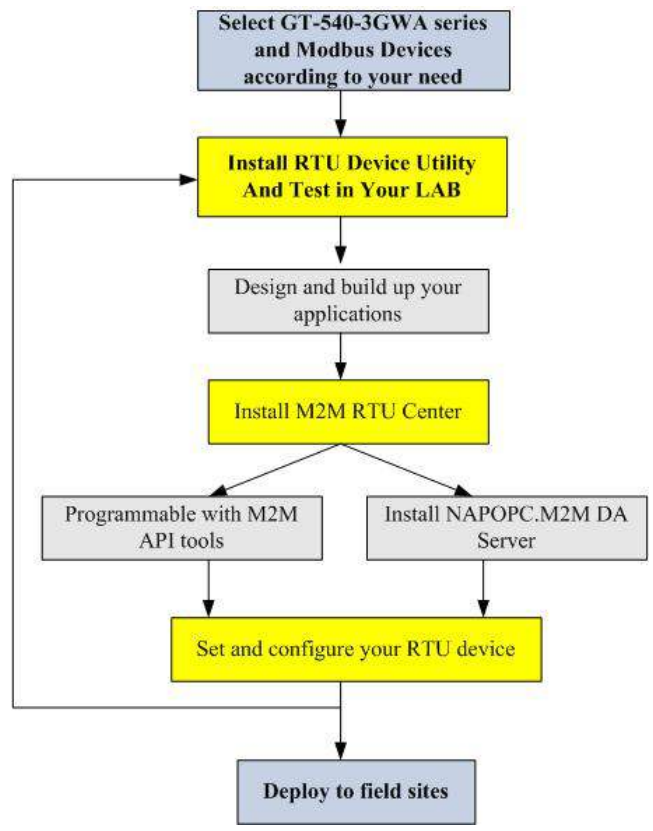
- Built-in 32 bit CPU
- COM port: COM1 (3-wire RS232), COM2 (RS-485),
- I/O: 6 channel DI, 2 channel DO, 1 channel AI
- Support SD storage card
- GSM Frequency : 850/900/1800/1900 MHz
- WCDMA Frequency : 850/900/1900/2100 MHz
- Automatic/continuous WCDMA/GPRS Link Management
- Support Modbus RTU protocol 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 GPS function
- Support 3.7V Li-ion battery backup

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

I/O	Channel number	Specification
AI	1	Resolution : 12-bit Input Range/Type : 0~20mA Sample Rate : 1KHz Max

Application flow chart

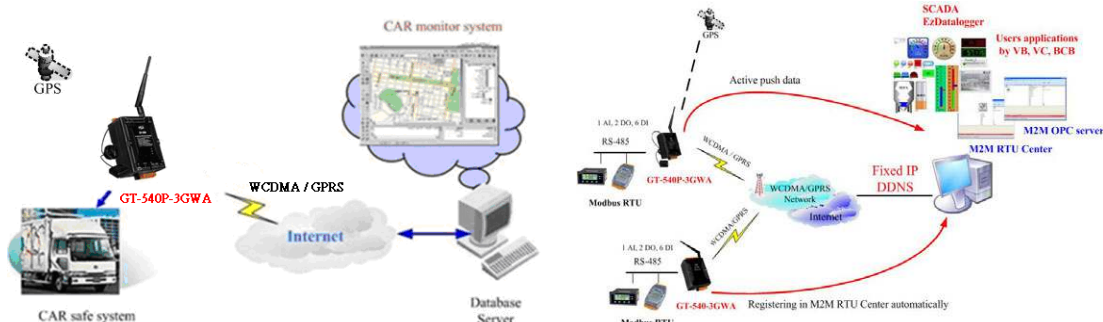


Hardware Specifications

System	
CPU	32 bit, Microprocessor
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)
GPS Interface	
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
General	
Power Requirement	2W; Unregulated +10V DC ~ +30V DC. Support 3.7V 600 mAH Li-battery
Power Consumption	Idle: 75 mA @ 24 V _{DC} ; Data Link: 180 mA @ 24 V _{DC} ; Peak: 460 mA @ 24 V _{DC}
LEDs	4 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))	
GPS(green)	Blinking	GPS data is valid	
	on	GPS data is invalid	

Applications



Ordering Informaion

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