

M2M Series Products

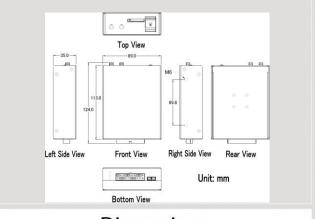
Intelligent 3G Remote Terminal Unit with GPS







RTU-531PM



Dimensions

RTU-531PM is an intelligent 3G Remote Terminal Unit with GPS. It can be used in M2M application fields to transfer the local I/O and GPS 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, RTU-531PM can also reach the real time control in local field.

Features

- Built-in 32 bit CPU
- COM port: COM1 (3-wire RS232)
- I/O: 4 channel DI, 2 channel DO, 4 channel AI, 2 channel thermistor inputs
- 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 M2M.OPC server and M2M.API tools
- Local I/O linkage function to make the simple local control
- Support GPS function
- Power supply $+10 \sim +30 \text{ V}_{DC}$

I/O Interface

I/O	Channel number	Specification
DO	2	Output type : Open-Collector (NPN) Load Voltage: +30V Max. Load Current : 100mA Max
DI	4	Input type: Sink or Source, Isolated channel with common power or ground On Voltage: +3.5V~+30V Off Voltage: +1V Max
AI	4	Resolution : 16-bit Input Range/Type : 0~20mA Sample Rate : 1KHz Max

Application flow chart Install RTU Device Utility And Test in Your LAB Design and build up your applications Install M2M RTU Center Programmable with M2M Install NAPOPC.M2M DA API tools Server Set and configure your RTU device Deploy to field sites



Hardware Specifications

System				
CPU		32 bit, Microprocessor		
Micro SD interface		4GB max.		
Serial Ports				
COM ports		COM1: TxD,RxD,GND for configuration		
G 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				
Support channel		56		
General				
Power Requirement		2W; Unregulated +10V DC ~ +30V DC.		
Power Consump		Idle: 75 mA @ 24 VDC; Data Link: 180 mA @ 24 VDC; Peak: 460 mA @ 24 VDC		
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		89mm x 124mm x 35mm (long*width* high)		
LED			Description	
	on		The power of the module is ON	
EXT(red)	off		The power of the module is OFF	
	Blink	ting (250 ms)	Network registered.	
			GPS searching for satellite.	
STA (Yellow)	Blink	ting (1 s)	Network registered. GPS is positioned.	
	Blinking (50 ms)		Wrong PIN/PUN code.	
		ys ON	Not registered.	
		king pre 3 sec	3G modem normal(2G network)	
3G(green)	Twinkling twice per 3 sec		3G modem normal(3G network)	
	OFF		3G modem fail	

Applications



Ordering Information

RTU-531PM CR Intelligent 3G Remote Terminal Unit with GPS (RoHS)