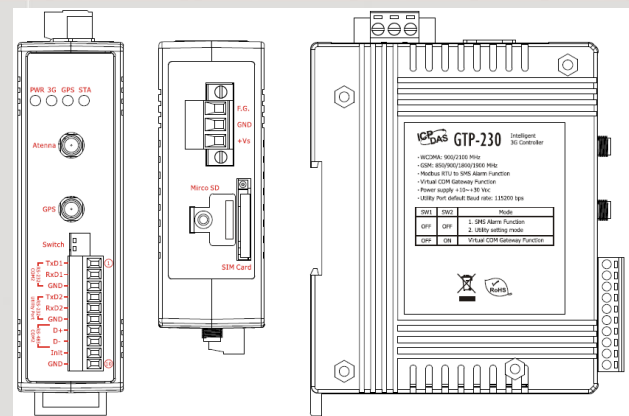# ICP DAS

M2M Series Products

Intelligent 3G Multi-Function Controller
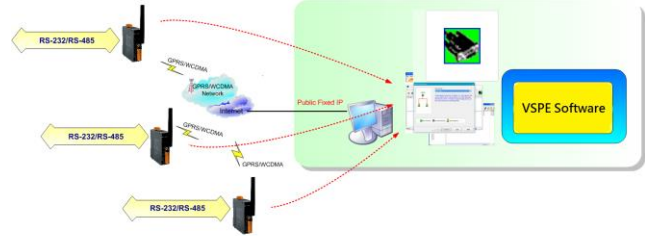
RoHS FC

GTP-230

Dimensions

GTP-230 is an intelligent 3G Multi-Function Controller. GTP-230 is a stand-alone with high cost-effective product and it was designed to suit most M2M 3G applications. Within high performance 32-bit CPU, it fits to harsh industrial environment. The GTP-230 also features a 3G module, a RS-232 ports and a RS-485 port. GTP-230 include SMS alarm function and Virtual COM (VSPE) gateway function. User can choose different function with DIP switch.

Features

- Built-in 32 bit CPU
- WCDMA Frequency：900/2100 MHz
- GSM Frequency：850/900/1800/1900 MHz
- Intelligent multiport serial to 2G/3G gateway(VSPE)
- Automatic/continuous WCDMA/GPRS Link Management
- Intelligent 3G SMS alarm controller(SMS)
- Identify ASCII or Unicode SMS Automatically
- Support max. 70 Unicode Characters
- Max. 16 Default Phone Books
- Max. 256 Default Phone Numbers
- Support simple command to send SMS via RS232
- 1 x RS-232 port or 1 x RS-485 port for general communication , 1 x RS-232 port for configuration
- Power supply +10 ~ +30 V_{DC}

Application

- *Easy to use, no programming required!!*
- *Periodic Counter SMS report !!*
- *Event SMS alarm!!*
- *SMS tunnel communication!!*

DIP Switch Mode

1	2	Specification
OFF	OFF	1.SMS Alarm Function 2.All of utility setting mode
OFF	ON	Virtual COM Gateway Function

Hardware Specifications

System	
CPU	32 bit, Microprocessor
Serial Ports	
COM ports	COM1(Utility): TxD,RxD,GND for configuration COM2 RS-232: TxD,RxD,GND for general communication COM2 RS-485: D+,D- for general communication
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/HSPA+: 900/2100 MHz
Power class	Class 3(250mW @ WCDMA/HSPA+)
General	
Power Requirement	2W; Unregulated +10V DC ~ +30V DC.
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℃ to 75℃ ; Storage Temp : -40℃ to 80℃
Humidity	5~95% non-condensing
Dimensions	89mm x 124mm x 35mm (long*width*high)

LED Name	LED Status	
PWR(Red)	ON	The power of the module is ON
3G(Green)	Flashing Once per sec	Successfully registered connection to base station (general status)
	Flashing 3 times per sec	Successfully registered connection to base station (Internet access)
	ON/OFF	3G cannot register
GPS (Green)	Flashing	GPS successfully positioned (***Note**)
	ON/OFF	GPS is not positioned (***Note**)
STA(Orange)	Flashing Once per sec	The internal operation is normal
	Flashing 3 times per sec	Initial mode
	ON/OFF	The internal operation is abnormal

Ordering Informaion

GTP-230	Intelligent 3G Multi-Function Controller (RoHS)