

GTP-542M-UDR

4G Multi-Function Controller (Asia only)

Features

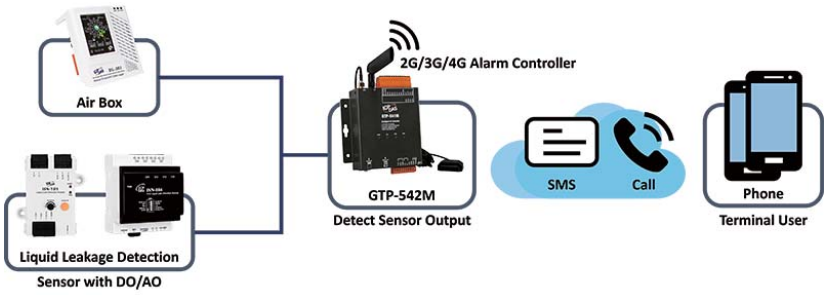
- I/O Trigger SMS/Voice Alarm Function
- Modbus RTU Trigger SMS/Voice Alarm Function
- Serial to 4G Gateway Function
- Remote terminal unit (RTU) Function
- Supports VoLTE
- Support Untethered Dead Reckoning (UDR)

Introduction

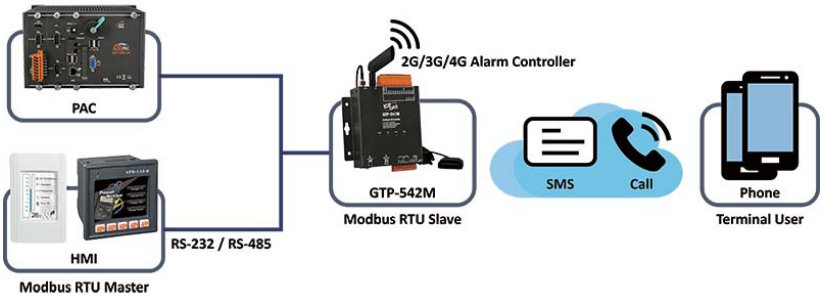
GTP-542M Series is smart 4G multi-functional controller developed by ICP DAS specifically for IoT applications. Its features include SMS/voice alarms, gateway, and remote terminal unit (RTU). Users can switch between different types of firmware using an SD card, depending on their application needs. ICP DAS also provides related software solutions, such as SMSDBS, VxServer, and RTU Center, to help users quickly build application platforms and reduce development costs.

Applications

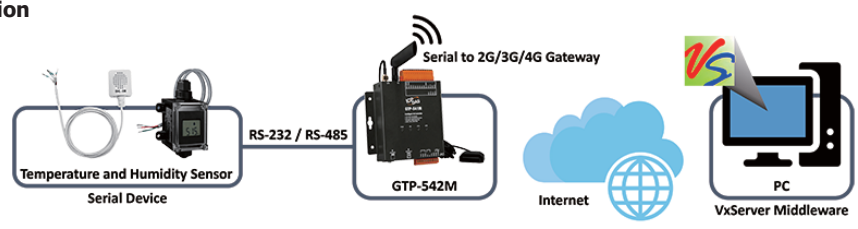
I/O SMS Function



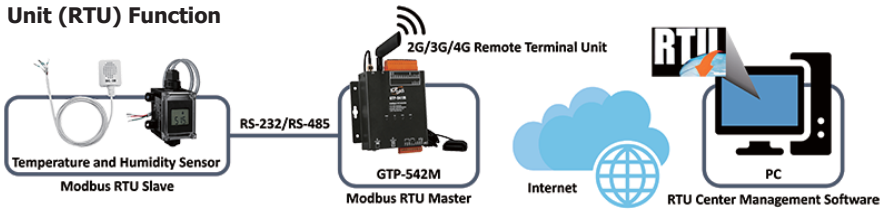
Modbus SMS Function



Gateway Function

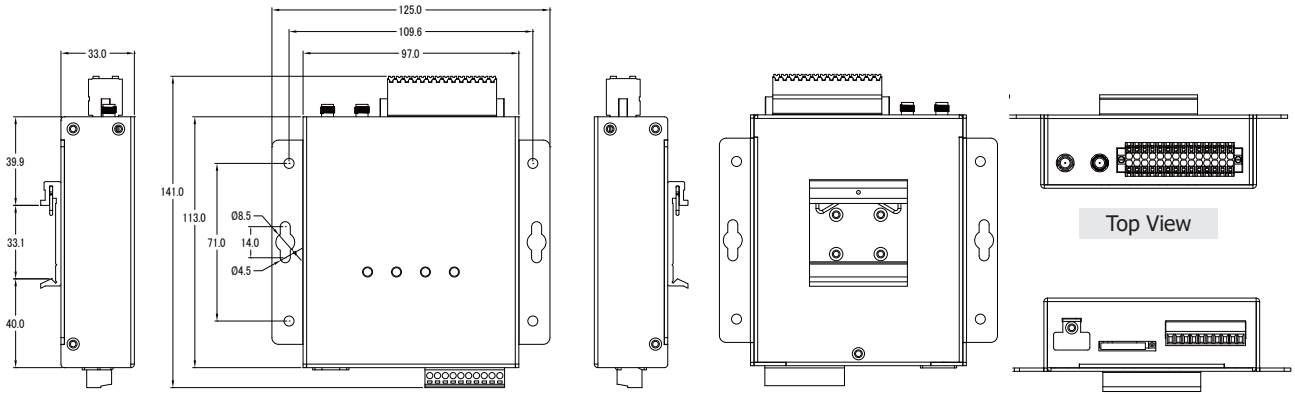


Remote Terminal Unit (RTU) Function



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Dimensions (Units: mm)



System Specifications

Model	GTP-542M-UDR
Software	
Function	SMS, Gateway, RTU
CPU Module	
Storage Expansion	microSDHC 32GB
Real Time Clock	Yes
LED Indicators	
Status	x PWR 1 x 4G 1 x STA 1 x GPS
2G System	
Frequency Band	B2, B3, B5, B8
3G System	
Frequency Band	B1, B2, B5, B8
4G System	
Frequency Band	FDD: B1, B2, B3, B4, B5, B7, B8, B28 TDD: B40
GPS/GNSS	
Frequency	GPS: 1574.39~1576.44 MHz GLONASS: 1597.50~1605.80 MHz BD: 1559.05~1563.14 Hz GALILEO: 1574.39~1576.44 MHz
Position Accuracy	Open Sky: 2.5m CEP
Protocol	Data Format: NMEA 0183
Analog Input	
Channels	4 Channels
Type	Voltage
Range	-10~+10 V
Resolution	16-bit

Model	GTP-542M-UDR
Digital Input	
Type	Wet Contact
Sink/Source (NPN/PNP)	Sink/Source, Isolated channel with common power or ground
ON Voltage Level	+5~+24 V
OFF Voltage Level	+1 V
Digital Output	
Load Voltage	+24 V DC
Load Current	100 mA
COM Ports	
Ports	1 x RS-232/RS-485, Non-isolated
Baud Rate	9600, 19200, 38400, 57600, 115200 bps
Power	
Consumption	4.8W (200 mA @ 24 V DC)
Mechanical	
Casing	Metal
Dimensions (mm)	113 x 125 x 34 (W x L x H)
Installation	DIN-Rail/Screw
Environment	
Operating Temperature	-25~+75 °C
Storage Temperature	-40~+80 °C
Humidity	5~95% RH, Non-condensing

Ordering Information

GTP-542M-UDR	4G Multi-Function Controller (RoHS)(Asia only)

Accessories

ANT-421-05	5 dBi, 4G LTE omni-directional antenna (SMA Male Plug) (RoHS)

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