

QT612

Advanced GSM / GPRS terminal for Remote Data Acquisition, Monitoring and Control. This device is highly sophisticated device with abundant hardware and firmware features with highly reliable communication options. Provision to integrate a large number of remote devices using its high precision Analog, Digital and Pulse inputs. Complete automation and remote control of remote devices using fully programmable digital outputs. Supports different protocols for data acquisition through serial ports.

Salient Features

- Digital Inputs for remote monitoring
- Digital outputs for remote controls
- Analog Inputs –Voltage or 4-20mA
- Dual SIM card for assured communication
- RS232 and RS485 ports for data acquisition
- Supports protocols like HTTP, TCP/IP, UDP or FTP for data communication to the server
- Supports MQTT protocol
- Customizable firmware
- Programmable automation logic for digital outputs
- Built in RTC

Hardware Specifications

- * GSM 850 / 900 / 1800 / 1900MHz GPRS Class 10
- * Multi-slot class 10 (4 Down; 2 Up; max.5) Max BR Download 85.6 Kbps Coding Scheme CS1-CS4
- * Ultra Low Consumption
- * Operating Temperature: -40 ~ +85°C
- * Sensitivity: -109dBm (850 / 900MHz), -108dBm (1800 / 1900MHz)
- * Dual SIM Cards
- * 12 Digital Inputs
- * 12 Digital Outputs
- * 12 Analog Inputs, 16 Bit resolution, configurable as 0-5V or 4-20mA
- * 2 Pulse Inputs
- * 1 RS232/TTL UART
- * 1 RS485/TTL UART
- * 9-24V DC input power
- * Sleep mode for low power consumption

Firmware features

- Customizable firmware based on project requirements
- Communication of data to server on specific events or on configured intervals
- Dual SIM Card option and switching of SIM cards in case of communication failures
- Supports protocols like HTTP, TCP / IP, UDP or FTP for data communication to the server
- Can Support MQTT protocol for communicating with MQTT broker / server
- Storing and forwarding of data in case of communication failures
- Automation of DO operations by giving simple conditions for time, week day, DI status etc...
- Operation of Digital outputs via SMS commands or commands from server
- Generation of events on change of DI or DO and sending alerts to Server or SMS alerts to configured group of numbers
- Provision for implementing protocols like Modbus, DLMS or any other proprietary protocol and acquire data from one or more devices connected to RS232 or RS485 ports
- Facility to store mobile numbers in different groups for authorization and SMS alerts
- Configuration of parameters via serial port or remotely by SMS or from the Server
- Facility to go on low power mode when there is no communication and automatic wakeup on incoming GSM communications, serial events or DI events
- Watchdog timer
- Over the air updation of firmware

Applications

- Remote monitoring application
- Automation and Remote operation of pumps, valves etc
- Data acquisition for remote devices on Modbus protocols.
- Automatic Meter reading



TRAIAC

www.traiac.in info@traiac.in
+91-7012776582 9544766026