

>> Configurable Slave Address

Multiple Slave ID <<

Modbus/RTU to GPRS Gateway

Our Modbus/RTU/IO to GPRS gateway, Expand your Data communication over wireless networks by GPRS Gateway with Secure and two-way communication, without in-depth knowledge of AT command or Protocol Concepts. Our Smart Modbus Gateways Series replaces the wired approach of sending the Modbus slave data to the centralized server, either single or multiple slaves. The device collects the data through MODBUS (RTU) protocol and sends it to the centralized server through GPRS using TCP or Http mode. All the Parameter is configurable via PC Utility or SMS or Server IP Commands, All configurations are done remotely. Not required to have the device during configurations. It's a generic device to fetch the Standard Modbus Slave device like Energy meters, Solar Inverters, PLC, Windmill, AMR, IO Modules, Flow Meters and more. The built-in smart data redundancy communication paths of GPRS in RTU Gateway, the data would be guaranteed to transfer your centralized server. We also provide a Cloud based Graphic interface (based on client requirements) to manage your device machines easily. Users can monitor and control the Slave and I/O data of RTU devices.



Application Segments

Automatic Meter Reading

- Power Monitoring and Control
- Fault Indicators

Temperature Alerts, Indicators

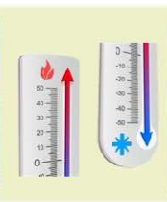
- Pump Control, Flow Measurements
- Windmill, SCADA, Data Exchange

- Central Monitoring and Control Systems

- Base Station, ATM Monitoring and Control



Power Generation Status?



Temperature Status ?



Fuel Monitoring ?

Features

Intelligent Modbus, IO, Data Logger, GPRS Connectivity Management. 1 x RS-485 port for Modbus, 1 x Utility port for Configuration

Configurable Multiple Slave IDs, Selectable Address Range

RS485 Transparent or Modbus Polling - Formatted to (ASCII/HEX/RawHEX) Data Logger during Server/Network Disconnection

Authorized numbers list for commanding

Configurable TCP/Http/Https Mode, GET/POST Methods Configurable JSON Format for Parameter Packetization

Remote Configuration through SMS/GPRS/Server IP Commands

Additional 2 x Digital/Analog Chanel, 1 x 4 to 20mA Chanel. Power failure, Shutdown, IO Alerts with Optional Battery.

OTA (Over The Air) Firmware upgrade.

LED indicators provide GSM, GPRS, Signal, Modbus status.

Configurable Server connection on demand or Always connected. Keep Alive command to maintain socket connection

Packetization methods: Packet length / Time interval / Special End Char.



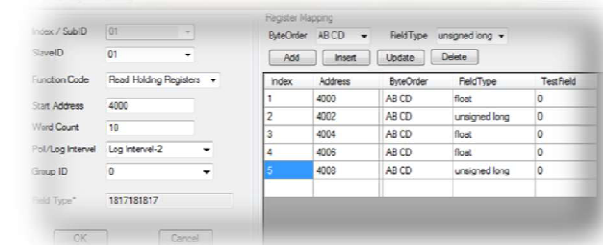
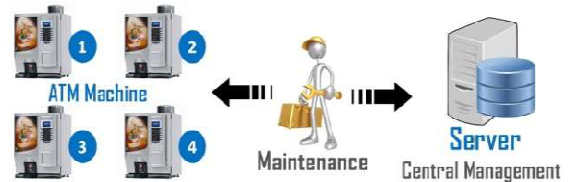
Battery Maintenance Alert!



Power Consumption ?



Overall Generation ?



Monitor and Control your Device
Any Time! Any Where!

Technical Specification

GSM Specification

Frequency	Quad band: 850/900/1800/1900 MHz Compliant to GSM Phase 2/2+ -Class 4 (2W @ 850/900 MHz) -Class 1 (1W @ 1800/1900 MHz)
GPRS	GPRS multi-slot class 12 GPRS mobile station class B
Transmitting Power	Class 4 (2W for GSM 850 and GSM 900) Class 1 (1W for DCS 1800 and PCS 1900)
SIM Interface	Internal SIM 1.8V & 3V

General Communication

Transmit Protocol	Configurable TCP, HTTP, HTTPS
Http Methods	Configurable GET/POST
Protocol Format	Configurable JSON/Standard Format
Device Configuration	SMS / PC Utility / Server IP Commands
RS485 Modes	Transparent / Modbus Polling Formatted (ASCII/HEX/RawHEX)
Serial Packet Format	Packet Size / Time interval / Special End Char
OTA	Firmware Updating via GPRS

Serial Specifications

Electrical Standard	TTL or RS232 or RS485
Connector	Micro Fit-5.0 (8 pins – 2 Power/2 Modbus/4 IOs)
Baud Rate	2400, 4800, 9600, 19200, 38400, 57600, 115200 bps

Interfaces

Input Port	2 Channel (0 to 24V) Analog/Digital Input
Analog Port	1 Channel 4 to 20 mA
GSM Antenna	External Only
LED Indicator	Power, GSM, Modbus Communication Status
RS485 Port	Multiple Modbus Slave Device Connection
Serial Port	PC Utility for Device Configuration

General Specifications

Connector Interface	Micro Fit-5.0 (8 pins – 2 Power/2 Modbus/4 IOs)
Dimension	100mm x 85mm x 24mm (L x W x H)
Weight	160 grams
Operating Voltage	10V - 32V DC
Operating Temperature	Operating: -10C to +55C
Supply Current	40mA at 12VDC (GPRS online, No transmission)

*We pursue a policy of continuous research and product development, Specifications and features are subject to change without notice

Gateway I/O Solution

- ✓ GPRS Gateway, Android Apps
- ✓ 8 Digital I/O, Relay O/P
- ✓ 4 Channel ADC, SD Card
- ✓ Auto Dialer, Voice Message



RFID Solutions

- ✓ GPRS, VTS Optional
- ✓ School Bus, Attendance
- ✓ Students Tracking
- ✓ Staff, Hostel Management



Matthew Vijay
+1 (613) 879-9221

3002, McCarthy Road,
Ottawa, Ontario,
Canada K1V8K8.

interludetechnology@gmail.com