

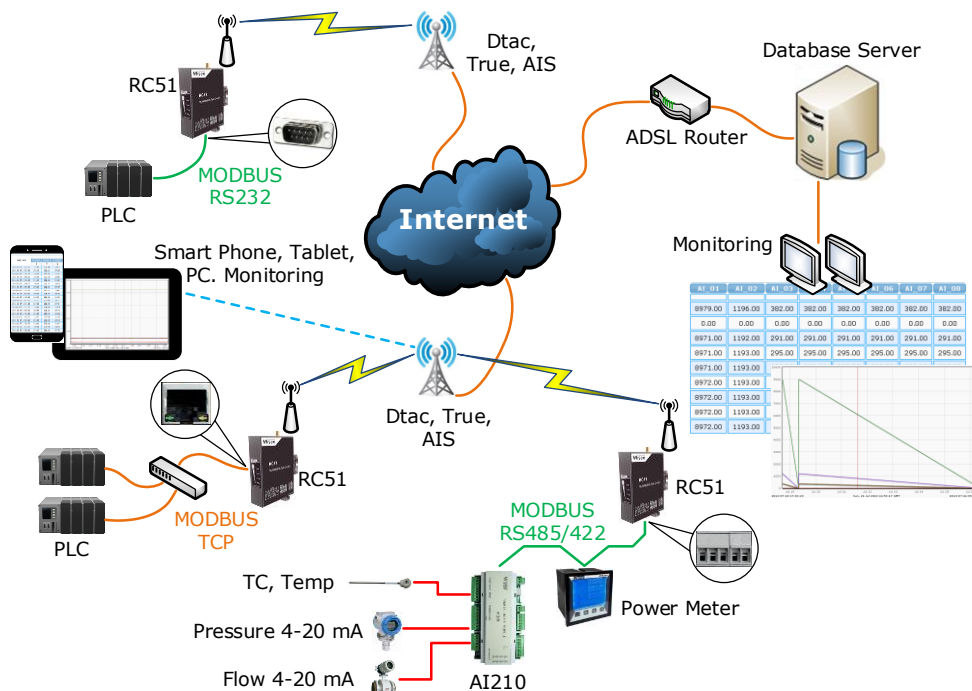
3G Modbus Data Center

RC51



- Smart Phone, Tablet, PC. Real Time Monitoring
- Automatic Synchronous Database Server (MySQL, SQL Server)
- Built-in 3G Modem (UMTS/HSDPA)
- Online Monitoring
- Easy Setting by Embedded Web Console
- Keep Data as Tag (Max. 128 tags Option)
- Support Modbus RTU, ASCII, TCP
- Data backup more than 1 Week

3G Modbus Data Center RC51 is equipment for collecting data from field devices such as PLC, Power Meter, Flow Meter, Analog Module etc. which communicate via Modbus Protocol (RTU/ASCII/TCP). Data will be store as "Data Tag" similar to process of SCADA then send the data to computer server (MySQL, SQL Server) using UMTS/HSDPA Modem (3G Modem) connect with local provider of mobile phone such as AIS, DTAC, TRUE and TOT (Thailand mobile provider). Can view data simultaneously via Smart Phone, Tablet, PC.



Specifications

Cellular Interface

Frequency Bands:

FDD LTE: 800/850/900/1800/2100/2600 MHz

TDD LTE: 2300/2500/2600 MHz

WCDMA: 850/900/2100 MHz

GSM: 900/1800 MHz

LTE Version: 3GPP E-UTRA Release 10

Data Transfer (Max.):

FDD LTE: 150 Mbps (DL), 50 Mbps (UL)

TDD LTE: 130 Mbps (DL), 35 Mbps (UL)

DC-HSPA+: 42 Mbps (DL), 5.76 Mbps (UL)

UMTS: 384 Kbps (DL), 384 Kbps (UL)

TD-SCDMA: 4.2 Mbps (DL), 2.2 Mbps (UL)

EDGE: 236.8 Kbps (DL), 236.8 Kbps (UL)

GPRS: 85.6 Kbps (DL), 85.6 Kbps (UL)

Output power:

FDD LTE 1800: 3.21 W

TDD LTE 2600: 1.7 W

WCDMA 850: 2.69 W

GPRS 900: 2.1 W

EDGE 900: 1.66 W

Ethernet Interface

Speed: 10/100 Mbps, Full-duplex or Half-duplex, Auto MDI/MDIX

Connector: RJ45

Standard: 10 Base-T/100 Base-T Standard

Transmission: 100 m.

Protocols: MODBUS TCP (Max. 8 Connection), TCP/IP, UDP, DHCP, HTTP

Configuration: Web Console

Serial Interface

Serial Standards:

RS-232 Through D-Type 9 Pin Connector

RS485/422 (Isolated) 5 Pin Terminal Block

Loading: RS485/422 Max 32 Unit

Distance:

RS-232 Length 15 m.

RS-485/422 Length 1 Km.

Protocol: MODBUS RTU, ASCII

Ordering Information Specify Data Capacity

Example RC51/80 Tags

Package Checklist

1. RC51
2. Antenna
3. LAN Cable

Serial Parameter

Baud Rate: 4800, 9600, 19200, 38400, 57600, 115200

Data Bits: 7, 8

Stop Bit: 1, 2

Parity: None, Odd, Even

System Requirement

Web Server: Apache, IIS

Script: PHP

Database: MySQL, SQL Server

Record

Storage Interface: 256 Mbytes

Data Capacity:

@ 1 Tag = 22,369,621 Records

@ 80 Tags = 818,400 Records

Sampling 1 min. = 568 days

Sampling 10 sec = 94 days

@ 128 Tags = 516,222 Records (Optional)

Sampling 1 min = 358 Day

Sampling 10 sec = 59 Day

Power Requirements

Power Supply: 12 to 24 VDC

Power Consumption

Standby: 120 mA @ 12 VDC (1.5 W)

Upload Data: 200 mA @ 12 VDC (2.5 W)

Environmental Limits

Operating Temperature: 0 to 55 °C

Operating Humidity: 5 to 95% RH

Storage Temperature: 0 to 70 °C

Physical Characteristics

Dimension: W30 x H122 x D98 mm.

Mounting: DIN Rail

Warranty

Warranty Period: 5 Year