

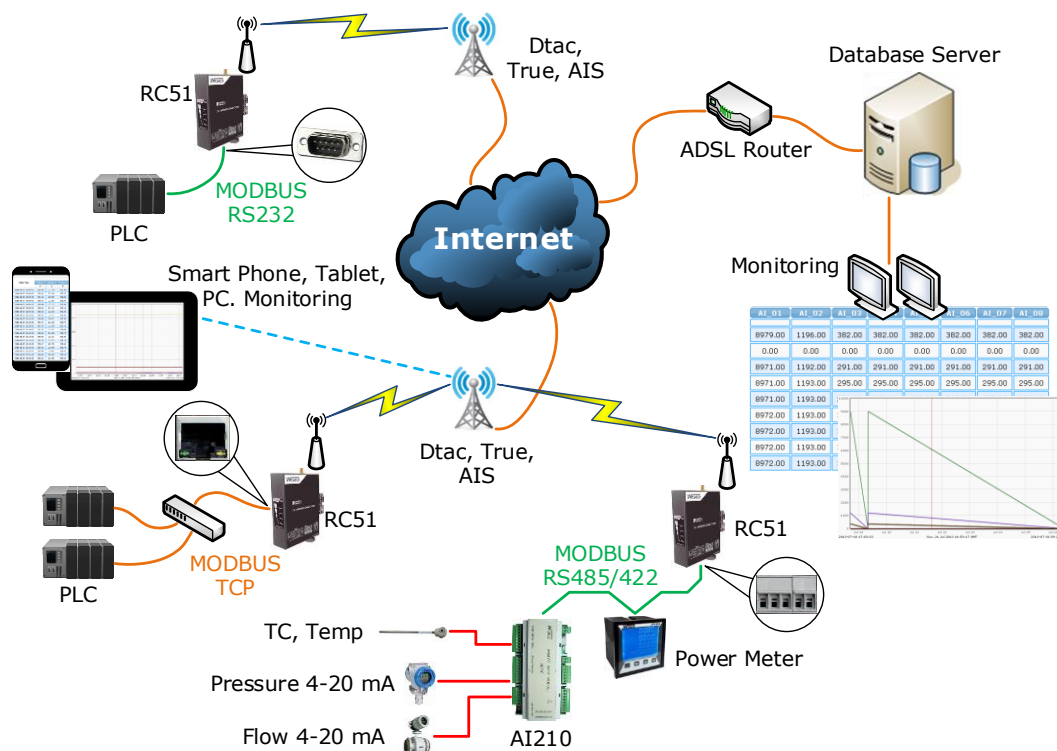
3G Modbus Data Center

RC51



- Smart Phone, Tablet, PC. Real Time Monitoring
- Automatic Synchronous Database 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 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

Dual Band: UMTS/HSDPA (900/2100 MHz)

Quad Band: GSM/GPRS/EDGE
(850/900/1800/1900 MHz)

GPRS multi-slot: Class 12

EDGE multi-slot: Class 12

WCDMA 3GPP: Release 5

Output power:

UMTS 850/1900: 0.25W

UMTS 900/2100: 0.25W

GSM 850/GSM 900: 2W

DCS 1800/PCS 1900: 1W

Data Transfer (Max.):

HSDPA: 3.6 Mbps (DL)

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

EDGE Class: 236.8 Kbps (DL), 118 Kbps (UL)

GPRS: 85.6 Kbps (DL), 42.8 Kbps (UL)

CSD: GSM data rate 14.4 Kbps

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. 4 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. LAN Cable 3. Manual

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