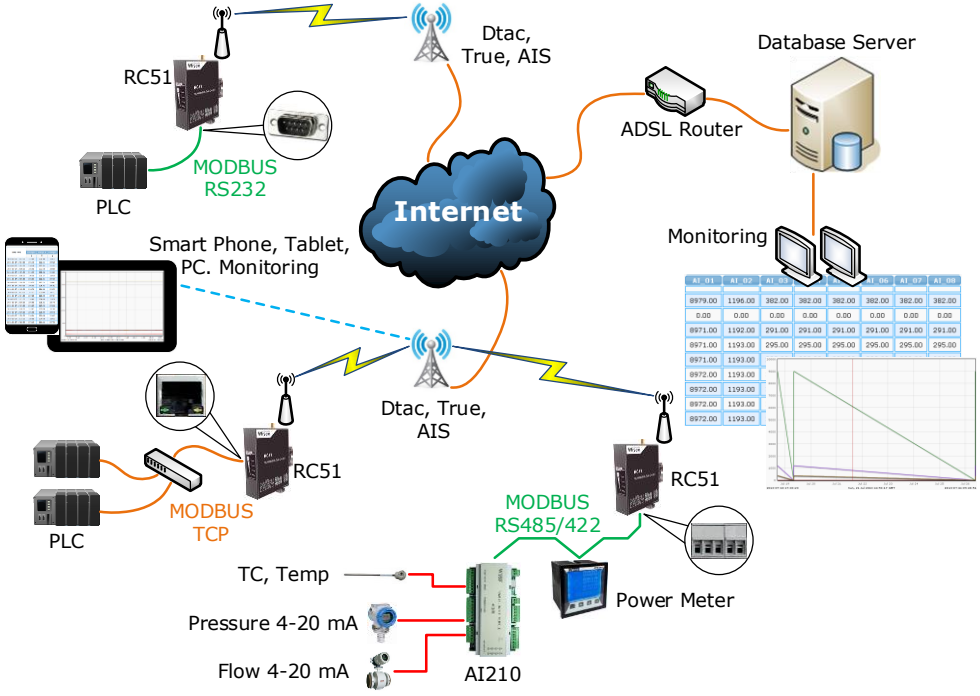
3G Modbus Data Center

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.



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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 Connecter
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

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 2.2, IIS
Script: PHP 5.4.3
Database: MySQL 5.5, 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

Ordering Information	Specify Data Capacity
Example	RC51/80 Tags

Package Checklist
1. RC51 2. Antenna 3. LAN Cable