CAS2500-03 – ModbusTCP/RTU Data Client

- *Collect and log data from Modbus TCP and RTU Enabled devices.*
- *View Log and current data using the onboard web server.*
- *Serves data to other applications using XML or HTTP*
- *Upload log files for later review.*
- *Simple and easy to use and configure.*

Description

Connects to ModbusTCP or ModbusRTU slaves to read data. The data and transactions are logged. The log files are available and can be transferred to other computers. Current data can be monitored by remote systems running applications that can issue HTTP or SOAP/XMP GET requests – such applications can be easily developed by end users. Of course, this data is available using an Internet Browser such as Internet Explorer or Google Chrome. Connection parameters, device parameters and data parameters are configurable.

Logging

Log records of each Modbus read and response transactions are maintained in the file system. Log record with time stamps of data returned by Modbus devices are maintained in the file system. These files are (zipped) human readable data.

Log files can be uploaded to a remote PC using HTTP.

The system can be configured to write copies of the log records to files on a USB memory stick connected to one of the USB ports. (USB sticks have limits on re-use).

When file space runs low, the data client overwrites older files.

Optional hard disk improves performance and capacity significantly.

Data Serving

The current value of any/all data objects reads from the Modbus Devices can be monitored remotely using HTTP or XML by using HTTP GET requests or XML/SOAP requests.

Modbus TCP

Connect to multiple ModbusTCP slave devices.

Slave IP and Address are configurable.

Connection port is configurable.

Functions codes supported (are read only – ask about write capability – this data sheet may be old)

- 01 Read Coil Status
- 02 Read Input Status
- 03 Read Holding Registers
- 04 Read Input Registers

Modbus Serial

One RS485 trunk with a max of 32 devices is supported.
One RS232 with a max of 1 slave device is supported.
Connection parameters, device parameters and data parameters are configurable.
Standard baud rates up to 38400k are supported.
Hardware handshaking and XON/OFF not supported.
Functions codes supported (are read only – ask about write capability – this data sheet may be old)

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Device Specifications

Embedded Fanless System Onboard Intel Atom 1.6Ghz CPU
Environmental Parameters
Temperature, ambient operating: -10°~55°C
Humidity (RH), ambient operating: 10~95%, non-condensing
Dimensions
144D x 190W x 36H mm
Power Supply
Input: 12V DC (ATX mode)
Power Adapter: 60W, VAC 100~240V adapter
Compliance
CE, FCC, RoHS
Interfaces
1xRS485 Port
1xRS232
1xCompact Flash
2x 10/100/1000 Realtek Network
Optional 2.5: SATA Hard Drive
Construction
Aluminum extrusion

CAS reserves the right to change the product specifications without notice. The specifications of ruggedized Mini PC's is always changing.

Connection Configurations