xml1000

The **XML1000** Serial I/O Server is another unique device in the SCT M2M hardware family. Rugged and compact, this XML-based hardware appliance allows for the monitor and control of 20 points of I/O using XML as the communications protocol.

Designed to serve as a partner to the COM1000 or as a stand-alone device, the XML1000 is an important device servicing the M2M market. Simplistic in both its design and feature set, the XML1000 serves a virtually un-addressed niche in the M2M market – a low-cost standards-based, open-source, hardware appliance for capturing digital and analog I/O events.

Flexible Applications

With a RS232 DB9 port for the physical interface, the XML1000 Serial I/O server allows for a network agnostic communications transport of your XML data. Communicating with the XML1000 can be done over serial links, leased-lines, dialup, or via TCP/IP using IP-to-Ethernet device servers or numerous types of private radio and 3G cellular modems.

Integration with SCADA Applications

XML (Extensible Markup Language) is a simple, flexible text format similar to HTML. Since the XML1000 presents I/O data in an open format, it is easily integrated into existing SCADA, telemetry, or meter reading applications. Applications configured to read I/O from the XML1000 can expose the data points to industrial automation and SCADA client applications using automation industry standard protocols, such as OPC and DDE.

Internal Applications

The XML1000 reports its digital and analog input states via poll or report by exception (RBX). Other internal applications include contact closure or pulse counts, low and high analog input setpoints, and analog input min and max value storage.

Example of XML1000's intuitive interface

```
<XML1000>
    <DIN>
        <D1>1</D1>
        <D2>1</D2>
        <D3>1</D3>
        <D4>1</D4>
        <D5>1</D5>
        <D6>1</D6>
        <D7>1</D7>
        <D8>1</D8>
</DIN>
    <AOUT>
        <AO1>5.0</AO1>
        <AO2>3.5</AO2>
    </AOUT>
    <RELAY>
        <R1>0</R1>
        <R2>0</R2>
    </RELAY>
</XML1000>
```

XML1000 comes in multiple varieties

Option A
CC/0-5
(8) DI - (CC)
(8) AI - 0-5VDC
(2) RO - 2A
(2) AO - 0-5VDC

Option B
CC/0-30
(8) DI - (CC)
(8) AI - 0-30VDC
(2) RO - 2A
(2) AO - 0-5VDC

Option C
CC/4-20
(8) DI - (CC)
(8) AI – 4-20 mA
(2) RO - 2A
(2) AO - 0-5VDC

Option D
OI/0-5
(8) DI - (OI)
(8) AI - 0-5VDC
(2) RO - 2A
(2) AO - 0-5VDC

Option E
OI/0-30
(8) DI - (OI)
(8) AI - 0-30VDC
(2) RO - 2A
(2) AO - 0-5VDC

Option F
OI/4-20
(8) DI - (OI)
(8) AI – 4-20VDC
(2) RO - 2A
(2) AO - 0-5VDC

XML1000 Specifications

Configuration
Terminal Interface
AT Commands
XML Formatted Commands
MS Windows® Utility

Protocols
ASCII Text Commands
XML

Reporting Methods
Poll
Report By Exception (RBX)

Inputs
(8) Digital Inputs
(8) Analog Inputs
(2) Analog Outputs
(2) Relay Outputs

Serial Interfaces
(1) RS232 DB9F DTE

Serial Port Specs
Baud: 1200 – 115200 bps
Parity: None
Stop Bits: 1
Data Bits: 8

Flow Control
None

RS232 Port Signals
TX, RX, GND,
RTS, CTS, DSR, DTR, DCD

Real-Time Clock
No

Physical Dimensions (H x W x D)
.95" x 4.38" x 4.41"

Weight
~ 1 lbs

Enclosure Material
18 GA CRS

Environmental
Operating Temp
- 40° to +85° C

Humidity
5–95% Non-condensing

LEDs
Power
Flashes during TX/RX

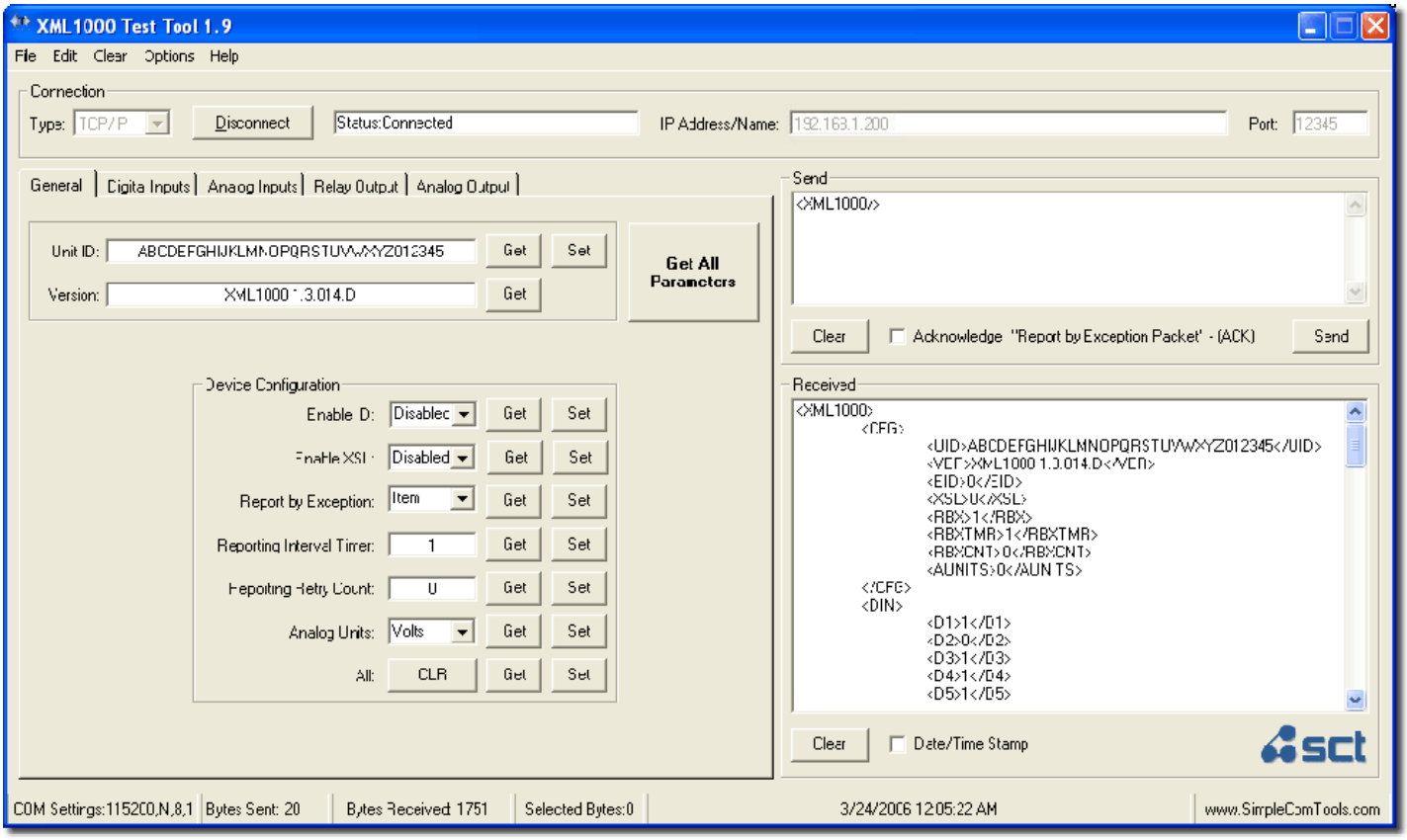
Power Requirements
9-30VDC
35mA @ 12VDC
80mA @ 12VDC,
with 1 Relay Energized
120mA @ 12VDC,
with 2 Relays Energized
Add 50 mA @ 12VDC.
per 5V Max Analog Output

sct simplecomtools

Machine-To-Machine – Simplified

The **XML1000 Test Tool** is a unique Windows based software utility used for configuring the XML1000 as well as for the discovery and testing of the required XML formatted commands. Capable of both local serial communications and LAN or remote IP connections, the XML100 Test Tool provides end-users and developers with a powerful and flexible tool for integrating with XML with their application.

XML (Extensible Markup Language) is a simple, flexible text format similar to HTML. The XML1000 presents I/O natively in this open format, making it easy to integrate it into existing SCADA, telemetry, or web applications. To better understand how XML works, the utility provides you with a real time display of the XML commands and responses sent to and from the device. Simply Get or Set any one or group of I/O points and watch the results.



XML1000 Dimensions