



A3000 SERIES SERIAL TO ETHERNET CONVERTER



Serial to Ethernet Converter

FEATURES

- Control RS232/422/485 devices via Intranet or Internet.
- LAN interface 10BaseT/100BaseTx Ethernet.
- Configuration utility automatically finds A3000 devices in the network.
- Configuration via WEB Browser or serial Port.
- Automatic switching between Driver and TCP Raw Mode.
- Automatic internal RS-485 bus supervision.
- Switch-selectable RS232/422/485 interface.
- CE and FCC marked.

APPLICATIONS

- Industrial/Factory/Laboratory SCADA system.
- Automatic warehouse control system.
- Building automation system.
- Wafer fabrication system.
- Other remote and distributed serial devices control.

GENERAL DESCRIPTION

A3000 is an industrial-strength network-based serial device server for connecting RS-232/422/485 devices such as DGH sensor to computer modules and other serial devices directly to the 10/100Mbps Ethernet network running TCP/IP. Any host computer can also access remote serial devices by adding A3000 devices to the existing serial port. The A3000 can be configured over WEB Browser, serial Port, Driver Panels, Telnet, SNMP and serves as a transparent serial channel without platform and distance limitation.

Note: Effective January 1st, 2012 – The A3000 DB-9 serial port connector has been changed from a DB-9 Female to a DB-9 Male Connector. The new connector pin out is referenced on the back of the A3000.

A3000 Specifications (typical at +25 degrees C and nominal power supply unless otherwise noted)

Hardware

Connector Type: RJ45 for LAN, DB-9 Male Serial Port.

Interface

LAN Interface: Auto-detecting 10BaseT/100BaseTx.
Protocols: TCP/IP, UDP, Telnet, DHCP, ICMP, HTTP, SNMP V1/2c/3, DNS.

Serial Interface: RS232/422/485 DIP switch selectable.

Serial Ports: 1, Baud Rates up to 460K.

Serial Modes: RS232 full duplex.
RS422 full duplex.
RS485 4 wire, full duplex.
RS485 2 wire, half duplex, with echo.
RS485 2 wire, half duplex, without echo.

Serial Port Signals: RS232 TxD, RxD, RTS/CTS, DTR, DSR, DCD, RI, GND
RS422 Tx+/-, Rx+/-, GND
RS485 2 wire Data+/-, GND
RS485 4 wire Tx+/-, Rx+/-, GND

RS-485 Data Control: Automatic bus direction or RTS.

Baud Rate: up to 460Kbps.

Parity: None, Odd, Even, Mark, Space.

Data Bits: 5, 6, 7, 8.

Stop Bits: 1, 1.5, 2.

Operating Modes

Driver Mode: VScOm Drivers for Windows NT 4.0, 2000, XP and 2003. Driver Mode creates virtual Com port.

TCP Raw Server: Raw data transfer over TCP/IP. Accepts multiple incoming connections.

TCP Raw Client: Raw data transfer over TCP/IP. Connects to multiple hosts or devices waiting for incoming connections.

TCP Advanced Settings: Special settings for user-defined modes.

UDP Mode: Raw data transfer by UDP. The A3000 is client and server at the same time. With the timeout functionality and a configurable trigger string it can make defined UDP packets of incoming data.

Null Modem Tunnel: Connecting two A3000 used as virtual null modem cable.

IP Modem: The serial port emulates a standard modem. Operates by AT-commands, and dials to IP-Addresses instead of phone numbers. Windows "INF"-Driver provided for installation.

Power and Environment

Power Requirements: 9 - 30Vdc, 200mA @ 12Vdc.

Power Supply Adapter (supplied) Output: 9V, 500mA.

Dimensions: 73x115x27 mm³ (WxLxH).
73x121x27 mm³ with DB-9 connector.

Operating Temperature: 0°C - 60°C.

Storage Temperature: -20°C - 85°C.

Case: SECC sheet metal (1mm).

Weight: 0.2kg.

Special Features

Installation: Configuration utility automatically finds A3000 devices in the network.

Operating Mode:

Automatic mode switching between Driver and TCP RAW mode. With TCP Advanced settings it is possible to configure the A3000 for using it in multiple modes, so it decides automatically which mode should be used.

Configuration:

Configuration over Driver Panels, A3000 Manager, WEB Browser, serial console, Telnet, SNMP.

SNMP: Special VScOm MIB included.

DNS: Domain Name Server support.

Serial Port: Serial Port configurable via DIP switch.

Firewall: Special precautions for Firewall environments.

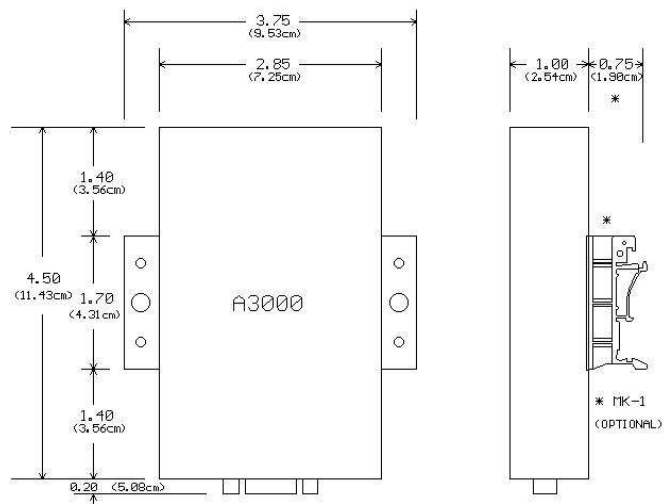
Firmware: Update over WEB Browser, Telnet, Com Port.

LEDs: Power, TxD, RxD, LAN Link, LAN Speed.

Security

Password Access: Every capabilities of configuration use the same password including SNMP V3.

Mechanicals and Dimensions



Ordering Information

A3000-110V or A3000-220V

Supplied with: AC Power supply adapter, CD-ROM with Driver and configuration software, Quick Installation Guide.

Contact Information

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