Simply Better Connections

SN3101

Serial Device Server

The SN3101 3-in-1 Serial Device Server supports RS-232, RS-422 and RS-485 data transfers, as well as providing Ethernet connectivity for a wide variety of serial devices used in commercial applications. These include industrial control,data acquisition, access control, environment monitoring,banking, telecoms, remote site management, etc. This total serial data transfer system transforms the capability of legacy serial devices, and allows them to take advantage of the speed and reliability of today's modern communication techniques.

Features

- Provides over IP access for industrial serial devices.
- Software selectable RS-232/422/485 3-in-1 serial port
- Built-in 15KV ESD serial port protection
- Max. baud rate: 460 Kbps
- Wide range of versatile serial operation modes - Console Management, Real COM, TCP Server, TCP Client, UDP, Modbus, Serial Tunnel and Virtual Modem
- High security via 128-bit/256-bit SSL (TLS v1.0) encryption for serial data transmission
- Redundancy support via multiple simultaneous Real COM, TCP Server, and TCP Client connections
- 64 Kbyte port buffer prevents data loss when the network is down
- Real COM driver for Windows 2000/XP/2003/Vista
- Real TTY driver for Linux, Fixed TTY driver for Unix*
- Modbus Ethernet-to-Serial support
- Modem emulation enables existing modem-based applications to make connections over IP networks
- Virtual Terminal support (VT320, VT52, VT100, VT220)
- System configuration via Web Console (HTTP/HTTPS), Telnet/SSH Console and Windows utility
- Backup/restore and firmware upgrading via Web Console(HTTP/HTTPS) and Windows utility
- Easy-to-use Windows utility (2000/XP/2003/Vista) for auto discovery, multiple device setting and monitoring
- Centralized external authentication support for RADIUS, LDAP(S), MS Active Directory
- SNMP MIB II and RS-232 MIB for network management
- SMTP and SNMP trap event notification
- Choice of power input: AC-DC adapter or DC direct

  * Fixed TTY Driver Supports 1) Sco Unix, Sco OpenServer; 2) Unix Ware 7, SVR 5; 3) Unix Ware 2.1, SVR 4.2; 4) QNX 4.25, QNX 6; 5) FreeBSD; 6) Solaris 10; 7) AIX 5.x; 8) HP-UX 11i

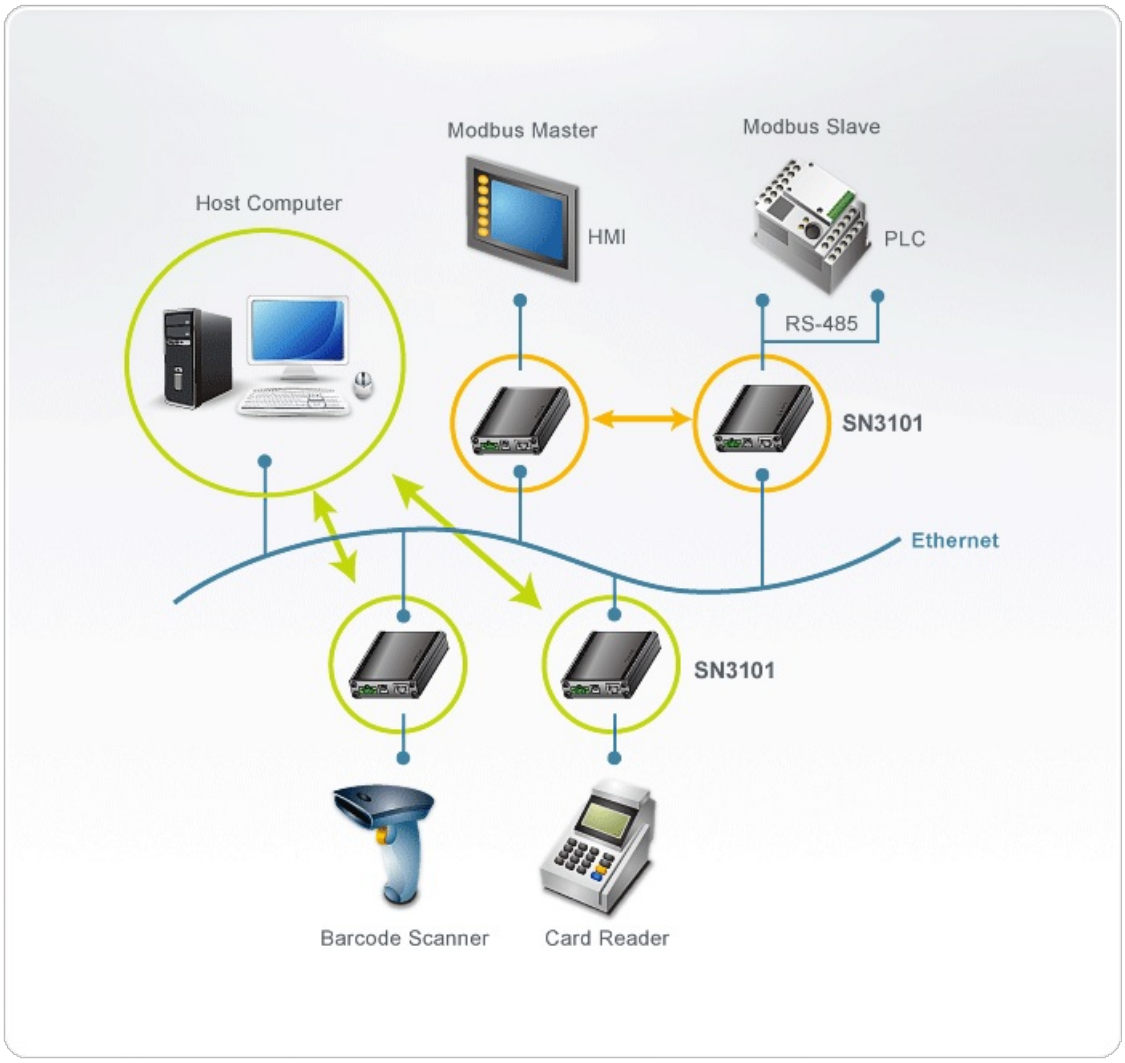
Specification

Connectors	
Serial	1 x DB-9 Male (Black)
Network	1 x RJ-45 Female (Black)

Power	1 x 2-pin Terminal Block (Green) 1 x DC Jack (Black)
Switches	
Reset	1 x Semi-recessed Pushbutton
LEDs	
Power	1 (Green)
Link	1 (Green)
10/100 Mbps	1 (Orange/Green)
TxRx (ACT)	1 (Green)
Power Inputs	
Power Adapter	100-240V AC; 50/60 Hz
Power Line Protection	4KV burst (EFT), EN61000-4-4 2KV surge, EN61000-4-4
Power Consumption	DC9V:2.28W:11BTU
Interfaces	
Serial	RS-232/422/485; Software selectable RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND RS-422: Tx+, Tx-, Rx+, Rx-, RTS+, RTS-, CTS+, CTS-, GND RS-485: Data+, Data-, GND Baud Rate: 460Kbps Protection: 15 KV ESD Protection for the serial port Parity: None, Even, Odd, Mark, Space Data Bits: 5, 6, 7, 8 Stop Bits: 1, 1.5, 2 Flow Control: None, XON/XOFF, RTS/CTS
Network	10/100BaseTX; Autosensing ARP, DHCP, DNS, HTTP, HTTPS, ICMP, IP, TCP, UDP, NTP, PPP, RADIUS, Telnet, SNMP, SNMP Trap, SMTP, SSH Protection: 1.5 KV Magnetic Isolation
Compliance	FCC Class A, CE Class A, RoHS
Environmental	
Operating Temperature	0 - 60°C
Storage Temperature	-20 - 85°C
Humidity	0 ~ 95% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.22 kg (0.48 lb)
Dimensions (L x W x H)	10.69 x 7.90 x 2.44 cm (4.21 x 3.11 x 0.96 in.)

Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.

Diagram



ATEN International Co., Ltd.
3F., No.125, Sec. 2, Datong Rd., Sijhih District., New Taipei City 221, Taiwan
Phone: 886-2-8692-6789 Fax: 886-2-8692-6767
www.aten.com E-mail: marketing@aten.com

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