

# SN3101

## 1 Port RS-232/422/485 Serial Device Server

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- 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



RS-232/422/485 3-in-1 serial Port



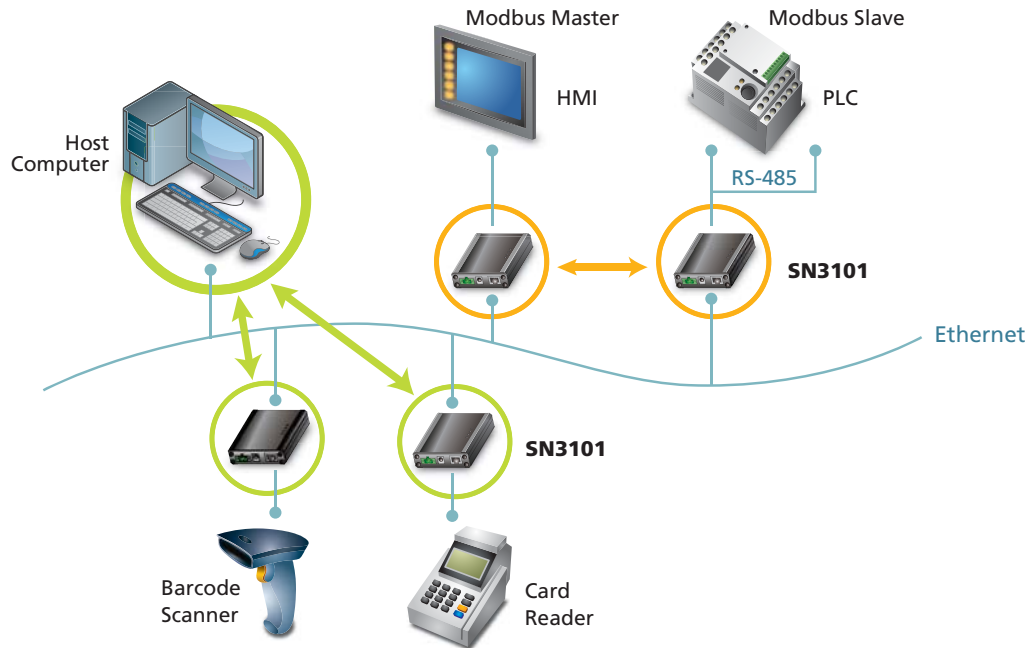
DC Terminal



Network Connection

- 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
- High security via 128-bit SSL 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



## Benefits

<b>Standard TCP/IP interface – broad choice of operation modes</b>	The SN3101 offers versatile, diversified serial data access operations to meet a broad range of application requirements – these include Console Management, Real COM, TCP Server, TCP Client, UDP, Modbus, Serial Tunnel and Virtual Modem.
<b>More convenient, more efficient serial device management across the entire installation</b>	The Serial Network Device Manager – a windows-based configuration and management utility – provides convenient and efficient management of your SN3101 installation.
<b>Convenient, flexible, access and configuration</b>	The SN3101 offers a variety of "over IP" methods to control your serial devices – from browser login, to a stand-alone Serial Network Device Management AP program, to Telnet/SSH terminal access.
<b>Secure data transmission</b>	Recognizing the importance of secure data transmission to your operations, powerful safety features have been designed into the SN3101. With 128-bit SSL serial data encryption for TCP Server, TCP Client, Virtual Modem and Serial Tunnel operation modes, you can feel confident that your data is adequately safeguarded.

<b>Centralized access control</b>	The SN3101 makes security policy enforcement smooth and easy. Administrators can authenticate user logins and authorize individual user rights via RADIUS, LDAP, LDAPS and Microsoft Active Directory servers.
<b>Modbus Ethernet –to – Serial support</b>	The SN3101's support for Modbus Ethernet-to-serial data transmission provides a bridge that seamlessly integrates Modbus devices (such as PLCs, DCSs, HMIs, etc.) into your serial network.

## Specification

Function		SN3101	
Connectors	Serial	1 x DB-9 Male (Black)	
	Network	1 x RJ-45 (Black)	
	Power	1 x 2-pin Terminal Block (Green)	
	PWR1	1 x DC Jack (Black)	
	PWR2		
Switches	Reset	1 x Semi-recessed Pushbutton	
LEDs	Power	1 x Green	
	Link	1 x Green	
	10/100 Mbps	1 x Orange / Green	
	T x R x ( ACT )	1 x Green	
Power Input	PWR1	12-48V DC (2-pin Terminal Block)	
	PWR2	9-30V DC (Power Adapter Jack)	
	Power Adapter	100-240V AC; 50–60 Hz	
	Power Line Protection	4KV burst (EFT), EN61000-4-42KV surge, EN61000-4-4	
Power Consumption		9V, 2.7W	
Interfaces	Serial	Standards	RS-232/422/485; Software selectable
		Baud Rate	460Kbps
		RS-232 Signals	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
		RS-422 Signals	Tx+, Tx-, Rx+, Rx-, RTS+, RTS-, CTS+, CTS-, GND
		RS-485 Signals	Data+, Data-, GND
		Serial 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	Standards	10/100BaseTX; Autosensing
		Protection	1.5 KV Magnetic Isolation
		Protocols	ARP, DHCP, DNS, HTTP, HTTPS, ICMP, IP, TCP, UDP, NTP, PPP, RADIUS, Telnet, SNMP, SNMP Trap, SMTP, SSH
Regulatory Approval		FCC Class A, CE Class A, RoHS	
Environment	Operating Temp.	0-60°C	
	Storage Temp.	-20-85°C	
	Humidity	0-95% RH, Non-Condensing	
Physical Properties	Housing	Metal	
	Weight	0.22 kg	
	Dimensions (L x W x H)	10.69 x 7.90 x 2.44 cm	

