

SN9116CO

16-Port Serial Console Server



ATEN launches a new generation of Serial Console Servers, the SN91xxCO Series ([SN9108CO](#) / SN9116CO). With single power / LAN in the SN91xxCO models, they integrate cutting edge technologies to provide convenient installation, secure serial device access, easy management and comprehensive control for data centers.

The SN91xxCO Series features Cisco pin-outs and auto-sensing DTE/DCE function, providing a direct connection to Cisco network switches (and other compatible devices) without rollover cables for even more time-saving IT infrastructure deployment. In addition, the SN91xxCO models support online detection of connected serial devices (including terminal blocks) for device status monitoring. A notification email alert will be sent to the administrator when connected devices are offline.

Implemented with various security technologies such as TLS 1.2 data encryption, RSA 2048-bit certificates, configurable user permissions for port access and control, local/remote/third-party authentication and authorization, IP/MAC address filter, and FIPS 140-2 certified cryptography, the SN91xxCO serial console servers assure administrators the security for easy and high-level access. For instance, access rights and privileges can be applied to 8/16 serial ports individually. Data encryption is provided to ensure that information and control are always protected. Logging and alerting of system events help to quickly resolve issues and mitigate risks. While secured by the above examples, the consolidated password authentication simplifies management.

The SN91xxCO Series is used to connect serial devices to an Ethernet network to allow access and control of demanding applications that manage industrial control, data acquisition, environment monitoring, remote facility operations and equipment management. Multiple operational modes are available to administrators including Console Management, Console Management Direct, Real COM Port, TCP Server/Client, UDP Server/Client, and Virtual Modem.

With its comprehensive features, the SN91xxCO Series helps to maximize IT productivity, increase scalability, as well as reduce installation and operational costs with easy and secure remote management of serial devices. The serial console servers save you time and money by allowing administrators to manage their data centers from practically anywhere – minimizing travel and MTTR (Mean Time to Repair) costs, ensuring the highest availability for data center services.

Features

• System Accessibility and Availability

- Secure in-band and out-of-band remote serial console access
- Browser access with an intuitive GUI
- Terminal-based access with a menu-driven UI
- Modem dial-in/dial-back/dial-out access

• Serial Console Management

- Auto-sensing DTE/DCE feature supports a direct connection to Cisco network switches (and other compatible devices) without rollover cables for more convenient IT infrastructure deployment
- Online/Offline detection of connected serial devices (including terminal blocks) – automatically send event notifications when the devices are offline (e.g. power failure) for device status monitoring
- Response Check - checks the system status of the connected serial devices, and sends a notification if the check fails (e.g. system crash)
- Convenient and simple serial device access via selectable Telnet/SSH and third-party clients such as PuTTY
- Easy port access via selectable ActiveX or Java serial viewer
- Comprehensive viewer functions – copy/paste, logging, data import, macros, broadcasting and message board
- Sun Solaris ready – Sun “break-safe”
- Alert Strings – whenever one of the pre-defined strings matches the message sent from the serial devices, you will be informed by serial console server via SNMP Trap alert and/or an email
- Command filter – administrators can restrict users to execute only pre-defined commands
- Multiple users can simultaneously access the same port – up to 16 connections per port
- Modes for simultaneous access – Exclusive/Occupy/Share

• Security

- Supports secure login from browsers with TLS 1.2 data encryption and RSA 2048-bit certificates
- Configurable user permissions for port access and control
- Local and remote authentication and login
- Third-party authentication via RADIUS, TACACS+, LDAP/AD and Kerberos
- IP and MAC address filter for enhanced security protection
- High security grade – supports FIPS 140-2 level 1 security standards that use an embedded FIPS 140-2 certified OpenSSL cryptographic module (Certificate #1747, #2398, #2473)
- Supports security level configuration – High, Medium-high, Medium or Custom, to ensure a fine granularity of network access control
- IEEE 802.1X compliant

• System Management

- System configuration via web browser, Telnet/SSH client and local console
- System log and event login
- Event Destination – Event logs will be saved to Log server, Syslog server, and USB drive*
- SNMP agent v1 / v2c / v3
- Event notification – supports notification of SMTP email, SNMP Trap (v1 / v2c / v3), and SMS (with additional mobile devices)
- Backup / Restore system configuration and upgradeable firmware
- Multi-browser support – Internet Explorer, Chrome, Firefox
- NTP for time server synchronization
- IPv4 / IPv6 support
- LLDP support
- Integrates into [CC2000](#) software for centralized data center management
- Integrates into [CCVSR](#) software for user session recording

• Serial Device Management

- Versatile serial operating modes – Console Management, Console Management Direct, Real COM Port, TCP Server/Client, UDP Server/Client, and Virtual Modem
- Real COM driver for Windows 2000 or higher and Windows Server 2003/2008
- Real TTY driver for Linux
- Fixed TTY driver for UNIX*
- Supports baud rates of 300, 600, 1200, 1800, 2400, 4800, 9600, 19200, 28800, 38400, 57600, 115200, 230400 bps

• Language

- Multi-language web-based GUI – available in English, German, Japanese, Korean, Russian, Simplified Chinese and Traditional Chinese

Note:

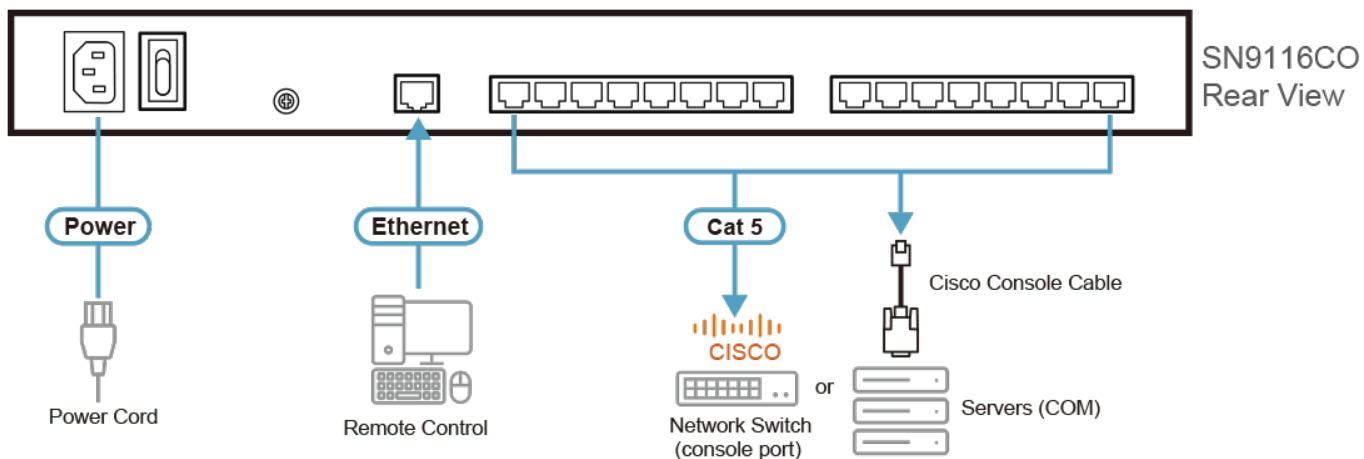
Fixed TTY Driver supports:

- OpenServer (Sco Unix)
- UnixWare 7, SVR 5
- UnixWare 2.1, SVR 4.2
- QNX 4.25, QNX 6
- FreeBSD
- Solaris 10
- AIX 5.x
- HP-UX 11i

Specification

Connection	16
Connectors	
Serial	16 x RJ-45 Female
LAN Ports	1 x RJ-45 Female
Power	1 x IEC60320/C14
Switches	
Reset	1 x Recessed Pushbutton
Power	1 x Rocker Switch
LEDs	
Serial	16 (Green)
10/100/1000 Mbps	1 (Red / Orange / Green)
Power	1 (Blue)
Maximum Input Power Rating	100-240V~, 1A, 50/60Hz
Power Consumption	AC110V:5.5W:26BTU/h AC220V:5.4W:25BTU/h Note: • The measurement in Watts indicates the typical power consumption of the device with no external loading. • The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 ~ 60°C
Humidity	0 - 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	3.16 kg (6.96 lb)
Dimensions (L x W x H)	43.72 x 21.76 x 4.40 cm (17.21 x 8.57 x 1.73 in.)
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.

Diagram



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