

SN0132CO

32-Port Serial Console Server with Dual Power/LAN





ATEN SN01xxCO Series (SN0108CO / SN0116CO / SN0132CO / SN0132CO / SN0148CO) provides IT and network administrators secure, out-of-band access to serial devices located at data centers or remote sites (such as network switches allowing console operation using RS-232). With dual power / LAN in SN01xxCO models, they integrate cutting edge technologies to provide convenient installation, secure serial device access, easy management and comprehensive control for data centers.

The SN01xxCO 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 SN01xxCO models support online detection of connected serial devices (including terminal blocks) for device status monitoring. An e-mail notification will be sent to the administrator when connected devices are offline.

With dual Ethernet ports and power supplies, the SN01xxCO supports power redundancy as well as failover, or dual IP addresses access, ensuring 24/7 availability of access to serial devices. A DC power option is also available for each of the SN01xxCO model for more flexible implementation.

Available in 8-, 16-, 32- and 48-port models, the SN01xxCO serial console servers offer both in-band and out-of-band (OOB) remote serial console access to servers and network devices via a direct Telnet/SSH client and Java viewer. The OOB management enables IT administrators to manage network devices (e.g. router, switch, UPS) in server rooms using management networks that are separated from the main/production networks. Where access difficulty occurs in the production network, the administrators can still access them via the console server. The serial console servers offer out-of-band access methods such as direct console connection from a local computer, USB console connection from a laptop, PSTN connection via modem, or hybrid network connection via the dual LAN ports (one connected to the production network and the other connected to the management network).

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 SN01xxCO serial console servers assure administrators the security for easy and high-level access. For instance, access rights and privileges can be applied to 8/16/32/48 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 SN01xxCO 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. Furthermore, the SN01xxCO Series works in tandem with ATEN's PDU remote power management systems. Both can be utilized through ATEN's CC2000 software to provide centralized serial device access and integrated power management.

With its comprehensive features, the SN01xxCO 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

Note: DC power models include SN0108COD, SN0116COD, SN0132COD, and SN0148COD.

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

- Front USB ports for storage Laptop USB Console (LUC) port for local console access via laptop Dual Ethernet ports allow fail control or dual IP address access
- Dual power supply

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
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- 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
- Integrates with ATEN PDU products for power management of each port

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

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 / v2 / v3
- Event notification supports notification of SMTP email, SNMP Trap, 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 <u>CC2000</u> software for centralized data center management Integrates into CCVSR software for user session recording 0

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



Specifications

Connectors	
Serial	32 x RJ-45 Female
LAN Ports	2 x RJ-45 Female
Power	2 x IEC 60320/C14
Local Console	1 x RJ-45 Female
Modem	1 x RJ-45 Female
PON	1 x RJ-45 Female (Reserved)
Laptop USB Console (LUC) Port	1 x Mini USB
USB Port	3 x USB Type A Female
Switches	
Power	2 x Rocker Switch
Reset	1 x Recessed Pushbutton
Maximum Input Power Rating	100–240VAC; 50/60Hz; 1.8A
Power Consumption	AC110V:9.8W:78BTU AC220V:9.7W:77BTU
LEDs	
Serial	32 (Green)
10/100/1000 Mbps	2 (Red/Orange/Green)
Power	2 (Blue)
Mode of Operation	Console Management, Console Management Direct, Real Com Port, TCP Server/Client, UDP Server/Client, Virtual Modem
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 ~ 60°C
Humidity	0 - 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	4.55 kg (10.02 lb)
Dimensions (L x W x H)	43.84 x 32.77 x 4.40 cm (17.26 x 12.9 x 1.73 in.)
Note	SN0132COD with dual DC power (I/P Rating: 36-48 V DC; 1.6 A in 5-Pin Terminal Block, Power Consumption: DC48V/22.1W) available at customer's request
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.



Diagram

