

Serial Console Servers

Remotely Access, Troubleshoot and Manage all Your IT

Product Highlights

Remote Access, Anytime

The DSM Serial Console Server will allow you to centrally access, manage and maintain your networking devices via their serial console port, using your IP network. In the event of a network failure, access is still possible via the DSM's optional analogue or 4G LTE cellular modem, ensuring you have complete control all of the time.

Proactive Event Management

The DSM captures and stores incoming data in separate serial port buffers, even during non-connect periods. The data is logged with individual time stamps which means troubleshooting is simplified when an issue arises.

Alarm Notification

The DSM can generate alarms to provide you with an advanced warning of issues, when events such as lost communication or invalid access are detected. Alarms can be sent by email, text message, SNMP, SYSLOG or audibly.

Temperature Monitoring

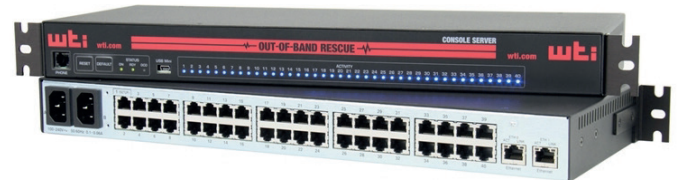
The DSM constantly monitors your rack temperature level with its integral temperature sensor. If the temperature exceeds your pre-defined thresholds, the DSM will notify you immediately, ensuring you can take action before high temperatures force a shutdown of your IT systems.

Secure Access

Comprehensive security and authentication features on the DSM prevent unauthorised access and ensure that the console server integrates seamlessly into your existing corporate security standards. Four levels of operational password are also available which makes the DSM ideal for co-location applications where users can be assigned access to specific ports only.

Remote Reboot

Integrate the DSM with any of our remote power reboot switches for complete control in the event of a network failure. By providing the ability to reboot a device and then monitor the boot-up process via the serial console port, you can ensure the failed device is quickly returned to full operational status.



Secure Console Access from Anywhere

The **DSM Serial Console Server** provides a reliable way to securely access, manage and troubleshoot multiple network devices in remote locations from one central site. Response times will be fast in the event of a networking problem, reducing network downtime significantly by alleviating the need for an engineer to travel to site to resolve the problem.

Access all your remote networking devices via their serial console port for re-configuring, rebooting, re-loading and upgrading firmware at a BIOS level. The common GUI interface on the DSM makes it easy to configure and install, allowing quick and easy management of all your IT equipment from any location, at any time, minimising response times and travel costs. The DSM allows central access to remote multi-vendor devices using standard tools such as Telnet and SSH.

Troubleshoot remote network devices and keep network downtime to a minimum. Terminal servers have often been used as console servers but these only provide basic console access with no advanced features such as event monitoring, alarm notification and port buffering. Cisco access servers are still used as improvised console servers but they are not a strategic long term solution as IT infrastructure evolves. Unlike a terminal or access server, the DSM is specifically designed for console management and will allow quicker troubleshooting by capturing the critical moments preceding a server or networking crash. By buffering data at the individual serial port during non-connect periods, troubleshooting is made easy.

Manage your IT from a single location and let the DSM monitor network equipment proactively. Administrators are promptly notified when high temperature, invalid access attempts, communication loss to network equipment or other critical events are detected. When enabled, the TSM will also ping IP addresses or domains, according to a set schedule. If the pinged device fails to respond, an immediate alert is sent.

FIVEYEAR
WARRANTY

Your IT is at the heart of your organisation. If it fails, business stops. Sentinel has over fifteen years' experience in power and console management. With products located in thousands of mission critical IT facilities, ranging from offshore oil and gas installations to global 24/7 rolling news providers, backed up with the highest MTBF in the industry, our track record is second to none. Entrust your business continuity with **Sentinel**.

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Key Features

Serial Console Port Management

- 8, 24 or 40 RS-232 RJ45 Serial Ports
- Break Command Blocking - Sun Break Safe
- SSH/Telnet/Raw Socket TCP Connection
- Reverse/Outbound SSH
- SNMP (V 1, 2C & 3) Control, Monitoring & Configuration

Remote Access

- Single or Dual In-band 10/100/1000Base-T Ethernet Port(s)
- Optional V.92 Analogue or 4G LTE cellular Modem
- Local Access RJ-45 RS232 & USB Mini Set-up Ports

Event Monitoring/ Logging/ Alarming

- Temperature Monitoring, Logging and Alarming with Integral Sensor
- Alarming on Lost Communication, Failed Ping Command, Invalid Access Lock-out, Power Cycling, Lost Voltage and Buffer Threshold
- Port Buffering - 256Kb per port
- Time stamp and Non-Connect Buffering
- Alarms via SNMP, email, text message
- Audit Log of all user access, login/out times and command actions

Security & Authentication

- SSHv2 Encryption
- Embedded Validated FIPS 140-2 Cryptographic Module
- LDAP/Kerberos/RADIUS/TACACS+
- HTTPS/SSL /TLS, SSHv2, SNMPv3
- IP Address Filtering
- Multi-Level Subscriber Directory
- Port-Specific Password Protection
- IPv4 and IPv6 support

Flexible Options

- 8, 24 and 40 Port Models
- AC and DC Power Options
- Single or Dual Power & Ethernet Options
- V.92 Analogue or 4G LTE Cellular Modem

High Availability with Dual Redundancy and Out-of-Band Management

High Availability of your serial console server is essential so you have access to all your equipment, even if routers or networks are down. Infrastructure failures are to blame for a large portion of unplanned downtime, and when the network fails, so do your networking management tools. You need your serial console server to always be available, whatever the networking problem.

Dual Redundancy on the DSM ensures reliable access to all your mission critical networking 24/7. Dual Ethernet interfaces are optionally available to provide backup network access when your primary network has failed. When communication via the primary network is interrupted, the DSM will still be accessible via the secondary network, providing continuous access to remote serial ports. Likewise, optional dual AC power supplies on the DSM will allow connection to a primary power source and a secondary power source, providing continuous console port access, even if the primary power source fails.

Out-of-band management provides direct, dial-up access to the console port of the affected IT asset when the network is down. In the case of remote office locations, this option is absolutely indispensable as it removes the need for an engineering call-out to site. By allowing quicker troubleshooting and a fast response, network downtime is shortened considerably. The DSM Serial Console Server is available with an optional internal V.92 analogue or 4G LTE Cellular modem, ensuring you always have emergency access to your devices. Moreover, as out-of band access is not often used, it is essential that this access method is highly reliable when you do need to respond to a critical infrastructure problem. As modems can themselves be prone to locking up, the DSM will continuously monitor its own modem's 'heart-beat'. If the modem is detected as having locked up, the DSM will automatically reboot the modem to ensure your out-of-band pathway is always available when you need it the most.

The DSM Serial Console Server is a scalable network management solution with a range of port densities from 8 to 40 ports. Simple to install, easy to use, with comprehensive console management features, the DSM is a low-cost solution to maintain high network availability whatever the problem, wherever it happens.

Description	Part Number
DSM-8 Serial Console Server, (8) RJ45 Console Ports, 240VAC	ST220000
DSM-24 Serial Console Server, (24) RJ45 Console Ports, 240VAC	ST230000
DSM-40 Serial Console Server, (40) RJ45 Console Ports, 240VAC	ST240000
Product Options	
Internal V.92 Analogue Modem	ST200001
Internal 4G LTE Cellular Modem	ST200002
Dual Power / Dual Ethernet	ST200010