

Nodegrid™ Serial Console Plus – Core Edition

Secure Remote Access and Control for IT Devices

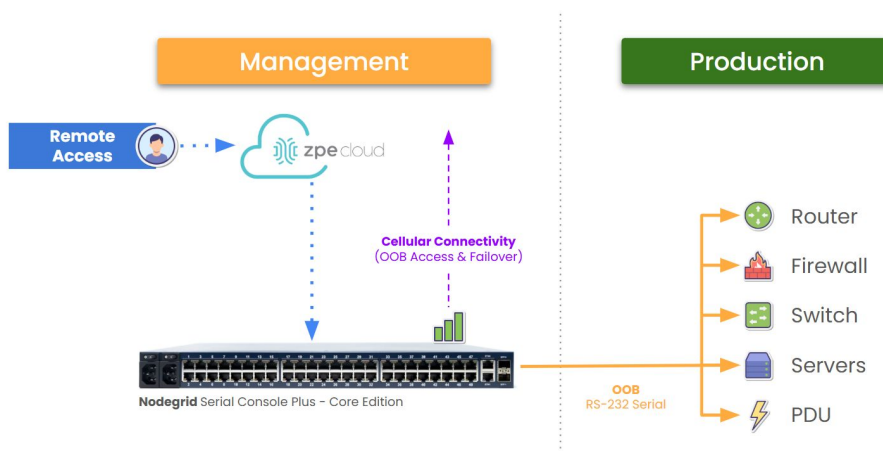
Nodegrid™ Serial Console Plus – Core Edition is the data center's next-generation serial console server. The NSCP Core Edition provides essential serial console functionality for secure remote access and power management to all Legrand rack PDUs. It offers fast, secure, and reliable out-of-band access to servers, networks, storage, power, and other serially-connected devices for faster problem resolution.

Benefits

- **Reduce CAPEX and OPEX expenses** with a consolidated, extensible solution and automated management
- **Reduce downtime and trips** to remote locations with instant access to your full IT stack
- **Minimize MTTR and downtime expenses** with secure, centralized remote device access & control
- **Increase site reliability** with open, industry-standard hardware and easy-to-use software

Features

- Gen 3 Out-of-Band Management Integration
- Centralized configuration and automation via Zero-Touch-Provisioning (ZTP)
- Integrates with ZPE Cloud for a vendor-neutral, unified management solution
- Modern x86-64bit Linux Kernel for fast security patching and widespread software availability
- Failover to 4G/5G/LTE & Analog Modem
- Built-in firewall
- Secure Selectable encrypted cryptographic protocols & cypher suite levels, configuration checksum™
- Power Control for ServerTech and Raritan rack PDUs



Simple & Fast

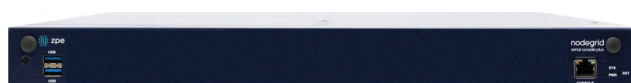
No more waiting! The NSCP Core Edition uses native or ZPE Cloud-based Zero Touch Provisioning capabilities. This allows users to remotely deploy the units anywhere in the world quickly and easily. Its modern, 64-bit Nodegrid OS can handle 100+ concurrent sessions, allowing for more operations, users, and I/O than most other console servers.

Secure & Sustainable

The NSCP Core keeps your information secure. It blends existing policy-based enterprise AD/LDAP/SAML authentication and authorization with the latest in cryptographic protocols and cypher suite levels, threat prevention, up-to-date SSL and SSH data encryption, IP filtering, secure boot, TPM, and a system configuration checksum.

Reliable & Scalable

The NSCP Core Edition reliably scales from single standalone systems, to large enterprise environments. Users can scale to any size environment with this cloud-based out-of-band solution, which was designed by award-winning industry veterans and built using modular, secure industry-standard hardware components.



NSCP - Core Edition - Front



NSCP - Core Edition - Back

Technical Specifications

Accessibility

- 2 x SFP+ Ethernet ports and 2 x Gigabit Ethernet ports with Multiple Routing Table and fail-over to 5G modem with Dual SIM and Console Port

Managed Power Devices

- ServerTech and Raritan Rack PDU's

Sensors

- Support for a wide range of USB sensors

Networking

- IPv4 / IPv6 Support
- VLAN, LACP, LLDP support

Port Access

- Direct access by port name, TCP port, device name and IPv4/IPv6
- 100+ simultaneous sessions
- Port sharing
- Command line interface (CLI)
- Port custom field support, port icon configuration, port search
- Break-over SSH support

System Management

- Web GUI management portal, command line interface (CLI), SNMP, RESTful API
- Zero Touch Provisioning (ZTP) via LAN/DHCP, WAN/ZPE Cloud, USB for configuration and firmware updates
- Multiple and customizable user levels of access
- SNMPv1,v2 and SNMPv3-v1 IPv4/IPv6
- Orchestration Integration and Automation: ZPE Cloud, RESTful
- Remote Procedure Call (RPC, gRPC)

Security

- Hardened device with BIOS protection, TPM 2.0, UEFI Secure Boot, Signed OS
- X.509 SSH certificate support, 4096-bit encryption keys
- Selectable cryptographic protocols for SSH and HTTPS (TLSv1.3, TLSv1.2, TLSv1.1, TLSv1)
- Selectable cypher suite levels: high, medium, low, custom
- Local, AD/LDAP, RADIUS, TACACS+, Kerberos, authentication
- SAML 2.0 support via Duo, Okta, Ping Identity, ADFS
- Two-factor authentication with RSA and DUO
- Local backup-user authentication support
- User-access lists per port
- Group/Role-Based Authorization: AD/LDAP, RADIUS, TACACS+
- Fine grain and role-based access control
- Firewall: IP packet and security filtering, IP forwarding support

Security (Continued)

- MD5 / SHA System Configuration Checksum™
- System event logging to file, Syslog, email, ZPE Cloud
- Custom security settings
- Strong password enforcement

Access Protocols

- HTTPS, SSHv2; optional HTTP, Telnet and SSHv1

Data Logging & Notifications

- Local port buffering: 20 MB per port
- Local, NFS, Syslog, offline data logging
- Time stamp and rotation for data logging
- Event destination: Local, Syslog, Email, ZPE Cloud
- Notification: Local, Syslog, Email, ZPE Cloud

Operating System

- Built-in x86-64bit Nodegrid OS

Power Specifications

- 40V-63 VDC dual power input (redundant)
- Dual AC: 100-240 VAC, 50/60 Hz
- Power consumption 45 W typical

Warranty

- 2-Year Limited Warranty

CPU & Storage

- Intel x86_64 Quad-Core
- 4GB of DDR4 DRAM
- 32GB SSD

Interfaces

- 16, 32, 48 RS-232 serial ports on RJ45 @ 230,400 bps max/port
- 2 x SFP+ (10Gb) and 2 x Ethernet (10/100/1000) interfaces on RJ45
- 1X RS-232 serial console port on RJ45
- 2X USB 3.0 Host on Type A connector
- 1X 5G Slot (Optional)
- 1X Analog Modem (Optional)

Physical

- Front-Rear Mounting Brackets
- Size (L x W x H): 443 x 312 x 43 mm (17.4 x 12.3 x 1.7 in), 1U
- Weight: 5.265 kg (11.6 lb), depending on options
- Shipping Weight: 8.745 kg (19.3 lb)
- Shipping (L x W x H): 533 x 497 x 209 mm (21 x 19.6 x 8.3 in)

Environmental

- Operation: 0 to 60° C (32°F to 140° F), 5-95% RH, non-cond.
- Storage: -20 to 67° C (-4°F to 153° F), 5-95% RH, non-cond.

Ordering Information

Channel SKU	Description	CPU	Memory	Power	Ports
NSCP-T16R-CORE-SAC	NSCP-Core 16-port Cisco Rolled, Single AC, 4-Core Intel CPU, 4GB DDR4, 32GB encrypted solid-state storage, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console	4 Cores	4GB	Single AC	16
NSCP-T16R-CORE-DAC	NSCP-Core 16-port Cisco Rolled, Dual AC, 4-Core Intel CPU, 4GB DDR4, 32GB encrypted solid-state storage, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console	4 Cores	4GB	Dual AC	16
ZPE-NSCP-T16R-CORE-DAC-5G	ZPE Nodegrid Serial Console Plus – Core Edition. 16-port Cisco Rolled, 4-Core CPU, 4GB DDR4, 32GB SSD, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console, 5G LTE (CAT20). Dual AC Power, cord included. Includes Standard 2 year support and HW warranty.	4 Cores	4GB	Dual AC	16
ZPE-NSCP-T16R-CORE-DAC-AM	ZPE Nodegrid Serial Console Plus – Core Edition. 16-port Cisco Rolled, 4-Core CPU, 4GB DDR4, 32GB SSD, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console, Analog Modem. Dual AC Power, cord included. Includes Standard 2 year support and HW warranty.	4 Cores	4GB	Dual AC	16
NSCP-T16R-CORE-DDC	NSCP-Core 16-port Cisco Rolled, Dual DC, 4-Core Intel CPU, 4GB DDR4, 32GB encrypted solid-state storage, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console	4 Cores	4GB	Dual DC	16
ZPE-NSCP-T16R-CORE-DDC-5G	ZPE Nodegrid Serial Console Plus – Core Edition. 16-port Cisco Rolled, 4-Core CPU, 4GB DDR4, 32GB SSD, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console, 5G LTE (CAT20). Dual DC Power. Includes Standard 2 year support and HW warranty.	4 Cores	4GB	Dual DC	16
ZPE-NSCP-T16R-CORE-DDC-AM	ZPE Nodegrid Serial Console Plus – Core Edition. 16-port Cisco Rolled, 4-Core CPU, 4GB DDR4, 32GB SSD, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console, Analog Modem. Dual DC Power. Includes Standard 2 year support and HW warranty.	4 Cores	4GB	Dual DC	16
NSCP-T32R-CORE-SAC	NSCP-Core 32-port Cisco Rolled, Single AC, 4-Core Intel CPU, 4GB DDR4, 32GB encrypted solid-state storage, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console	4 Cores	4GB	Single AC	32
NSCP-T32R-CORE-DAC	NSCP-Core 32-port Cisco Rolled, Dual AC, 4-Core Intel CPU, 4GB DDR4, 32GB encrypted solid-state storage, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console	4 Cores	4GB	Dual AC	32
ZPE-NSCP-T32R-CORE-DAC-5G	ZPE Nodegrid Serial Console Plus – Core Edition. 32-port Cisco Rolled, 4-Core CPU, 4GB DDR4, 32GB SSD, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console, 5G LTE (CAT20). Dual AC Power, cord included. Includes Standard 2 year support and HW warranty.	4 Cores	4GB	Dual AC	32
ZPE-NSCP-T32R-CORE-DAC-AM	ZPE Nodegrid Serial Console Plus – Core Edition. 32-port Cisco Rolled, 4-Core CPU, 4GB DDR4, 32GB SSD, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console, Analog Modem. Dual AC Power, cord included. Includes Standard 2 year support and HW warranty.	4 Cores	4GB	Dual AC	32
NSCP-T32R-CORE-DDC	ZPE Nodegrid Serial Console Plus – Core Edition. 32-port Cisco Rolled, 4-Core CPU, 4GB DDR4, 32GB SSD, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console. Dual DC Power. Includes Standard 2 year support and HW warranty.	4 Cores	4GB	Dual DC	32
ZPE-NSCP-T32R-CORE-DDC-5G	ZPE Nodegrid Serial Console Plus – Core Edition. 32-port Cisco Rolled, 4-Core CPU, 4GB DDR4, 32GB SSD, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console, 5G LTE (CAT20). Dual AC Power, cord included. Includes Standard 2 year support and HW warranty.	4 Cores	4GB	Dual DC	32

Ordering Information (Continued)

Channel SKU	Description	CPU	Memory	Power	Ports
ZPE-NSCP-T32R-CORE-DDC-AM	ZPE Nodegrid Serial Console Plus – Core Edition. 32-port Cisco Rolled, 4-Core CPU, 4GB DDR4, 32GB SSD, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console, Analog Modem. Dual DC Power, cord included. Includes Standard 2 year support and HW warranty.	4 Cores	4GB	Dual DC	32
NSCP-T48R-CORE-SAC	NSCP-Core 48-port Cisco Rolled, Single AC, 4-Core Intel CPU, 4GB DDR4, 32GB encrypted solid-state storage, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console	4 Cores	4GB	Single AC	48
NSCP-T48R-CORE-DAC	NSCP-Core 48-port Cisco Rolled, Dual AC, 4-Core Intel CPU, 4GB DDR4, 32GB encrypted solid-state storage, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console	4 Cores	4GB	Dual AC	48
ZPE-NSCP-T48R-CORE-DAC-5G	ZPE Nodegrid Serial Console Plus – Core Edition. 48-port Cisco Rolled, 4-Core CPU, 4GB DDR4, 32GB SSD, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console, 5G LTE (CAT20). Dual AC Power, cord included. Includes Standard 2 year support and HW warranty.	4 Cores	4GB	Dual AC	48
ZPE-NSCP-T48R-CORE-DAC-AM	ZPE Nodegrid Serial Console Plus – Core Edition. 48-port Cisco Rolled, 4-Core CPU, 4GB DDR4, 32GB SSD, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console, Analog Modem. Dual AC Power, cord included. Includes Standard 2 year support and HW warranty.	4 Cores	4GB	Dual AC	48
NSCP-T48R-CORE-DDC	ZPE Nodegrid Serial Console Plus – Core Edition. 48-port Cisco Rolled, 4-Core CPU, 4GB DDR4, 32GB SSD, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console. Dual DC Power. Includes Standard 2 year support and HW warranty.	4 Cores	4GB	Dual DC	48
ZPE-NSCP-T48R-CORE-DDC-5G	ZPE Nodegrid Serial Console Plus – Core Edition. 48-port Cisco Rolled, 4-Core CPU, 4GB DDR4, 32GB SSD, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console, 5G LTE (CAT20). Dual DC Power. Includes Standard 2 year support and HW warranty.	4 Cores	4GB	Dual DC	48
ZPE-NSCP-T48R-CORE-DDC-AM	ZPE Nodegrid Serial Console Plus – Core Edition. 48-port Cisco Rolled, 4-Core CPU, 4GB DDR4, 32GB SSD, 2 SFP+, 2 GbE, 2 USB 3.0, 1 HDMI, 1 console, Analog Modem. Dual DC Power. Includes Standard 2 year support and HW warranty.	4 Cores	4GB	Dual DC	48

Support Licenses

1 Year – Subscription

Channel SKU	Description
NSCP-T16R-STND-ALL-EWIG	NSCP 16-port – 1Y – 24x7 Gold Technical Support, Software Updates and Hardware
NSCP-T32R-STND-ALL-EWIG	NSCP 32-port – 1Y – 24x7 Gold Technical Support, Software Updates and Hardware
NSCP-T48R-STND-ALL-EWIG	NSCP 48-port – 1Y – 24x7 Gold Technical Support, Software Updates and Hardware

Support Licenses (Continued)

2 Year – Subscription

Channel SKU	Description
NSCP-T16R-STND-ALL-EW2G	NSCP 16-port – 2Y – 24x7 Gold Technical Support, Software Updates and Hardware
NSCP-T32R-STND-ALL-EW2G	NSCP 32-port – 2Y – 24x7 Gold Technical Support, Software Updates and Hardware
NSCP-T48R-STND-ALL-EW2G	NSCP 48-port – 2Y – 24x7 Gold Technical Support, Software Updates and Hardware

3 Year – Subscription

Channel SKU	Description
NSCP-T16R-STND-ALL-EW3G	NSCP 16-port – 3Y – 24x7 Gold Technical Support, Software Updates and Hardware
NSCP-T32R-STND-ALL-EW3G	NSCP 32-port – 3Y – 24x7 Gold Technical Support, Software Updates and Hardware
NSCP-T48R-STND-ALL-EW3G	NSCP 48-port – 3Y – 24x7 Gold Technical Support, Software Updates and Hardware

5 Year – Subscription

Channel SKU	Description
NSCP-T16R-STND-ALL-EW5G	NSCP 16-port – 5Y – 24x7 Gold Technical Support, Software Updates and Hardware
NSCP-T32R-STND-ALL-EW5G	NSCP 32-port – 5Y – 24x7 Gold Technical Support, Software Updates and Hardware
NSCP-T48R-STND-ALL-EW5G	NSCP 48-port – 5Y – 24x7 Gold Technical Support, Software Updates and Hardware