zpe

serial console™
NODEGRID

Security Warning

The Nodegrid Serial Console provides extensive access to the devices attached to this equipment. As a result, care must be taken to avoid compromising your security policies.

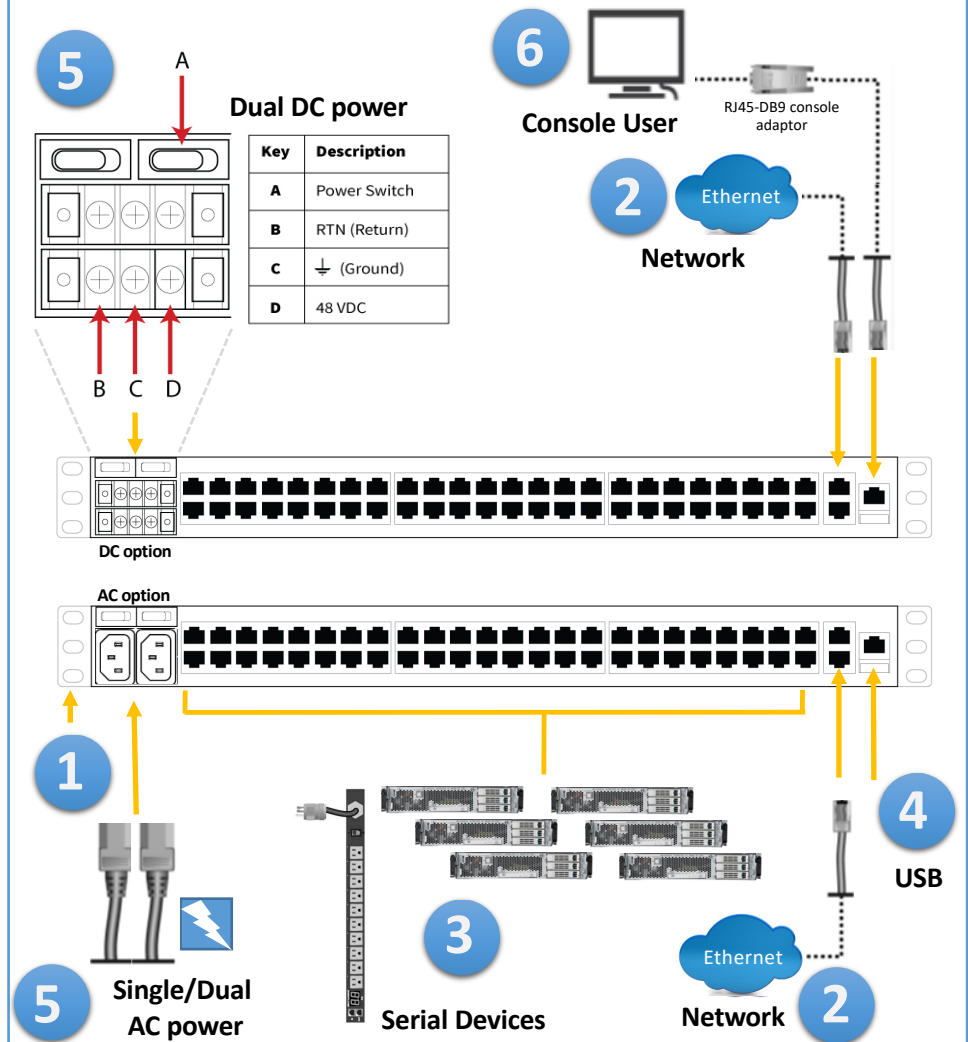*From the factory, this equipment is shipped with the following settings:*

- DHCP, SSHv2, HTTPS – ENABLED
- All Serial ports – DISABLED
- Ethernet, USB and Serial Console Ports – ENABLED
- Two default users with passwords:
  - **root** – **root**
  - **admin** – **admin**

Note: root access to shell enabled on the console port only.

ZPE enforces password changes upon first login for root/admin users. ZPE recommends carefully configuring security settings immediately after initial setup.

Please consult the NSC User Guide for more information on security settings.

NSC T48 serial console shown

5   A

Dual DC power

Key	Description
A	Power Switch
B	RTN (Return)
C	⏚ (Ground)
D	48 VDC

B C D

DC option

AC option

6 Console User

RJ45-DB9 console adaptor

2 Ethernet

Network

1

5 Single/Dual AC power

3 Serial Devices

2 Ethernet Network

4 USB

For manual downloads, visit:
www.zpesystems.com/document-library/

The following instructions will help you install your NSC.
For further assistance please contact ZPE Technical Support.

1 Rack mount your NSC appliance
For detailed rack mounting instructions, see the *NSC User Guide.*

2 Connect to your network
Connect a ZPE-recommended CAT 5e or CAT 6 cable from the 10/100/1000BaseT port to your network. You may connect to either or both network ports for redundancy.

3 Connect serial devices
Using CAT 5e or CAT 6 cables and DB9 or DB25 console adaptors, connect the appropriate serial devices to the serial ports on the NSC.

4 Connect USB devices
Connect a supported USB device to the appropriate ports located on the front of the serial console.

5 Connect power cable(s) and turn on the NSC

Connect power cable(s) between the appliance and your power source(s). Turn on the power switch(es).

6 Connect to the Serial Console port

Using an RJ-45 console adaptor, connect a terminal or workstation to the serial console port on the NSC. The NSC will be configured using a terminal or terminal emulator with session settings of: 115,200, 8, N and 1, with no flow control.

Note: *All remaining manual setup steps are required the first time you configure your NSC.*

7 Configure network parameters

NOTE: *Skip to* **step 8** *if you have a DHCP environment. DHCP is the default IP configuration. If no DHCP server is available, please log in to Nodegrid Serial Console using* **admin** *credentials (you will be required to change password on the first login) and configure a static IP address using CLI instructions as follows:*

```
[admin@Nodegrid /]# cd
settings/network_interfaces/ETH0/
[admin@Nodegrid ETH0]# set
ipv4_mode=static
[admin@Nodegrid ETH0]# set
ipv4_address=10.0.0.10
ipv4_mask=255.255.255.0
ipv4_gateway=10.0.0.1
[admin@Nodegrid ETH0]# show
interface: eth0
mac address: 08:00:27:c4:cf:e5
status = enabled
ipv4_mode = static
ipv4_address = 10.0.0.10
ipv4_mask = 255.255.255.0
ipv4_gateway = 10.0.0.1
ipv6_mode = no_ipv6_address
[admin@Nodegrid ETH0]# commit
[admin@Nodegrid ETH0]# exit
```

Connect to the NSC console port. Login as root to change the root password.

8 Configure serial, network & USB devices

Note: Your NSC will respond over the network at **192.168.160.10** if your DHCP server fails or is unavailable.

Note: To check your current IP address, connect to the NSC console port and hit **Enter** at the login prompt until you see the IP address.

To configure the NSC T-Series for the first time via Network:

a) Open a web browser (HTTP/S) and enter its IP address in the address field. Or start an SSH session to your NSC's IP address.

b) Log in to your NSC as **admin.** You will be required to change password on the first login.

Set your system security options as described below.

Step 1 - Security

Security services tab: Select the desired services, cryptographic protocols and cipher suite levels. Click *Save* when finished.

Step 2 - Network

Network settings tab: Set your desired Network and Interfaces parameters. Click *Save* for each submenu.

Step 3 - Ports

Managed Devices tab: Select local serial console port checkboxes and click "Edit." Set your preferences and click *Save* when finished.

Step 4 - Change Admin Password

At any time, click login@domain.com in the upper right corner of your screen and click "Change Password" to change your system password.

Note: Connect to the NSC console port. Login as root to change the root password.

Congratulations!

Your Nodegrid Serial Console is now configured and ready to accept users and connections to its ports.

9 Additional Configuration

NOTE: We recommend that you set up a **new** Administrator account (in *admin* group with full privileges) and use the new account instead of the default *admin* account.

Add New Users
Click Security tab, Local Accounts, Add, set options, *Save.*

Alerts & logging
Set and send alerts by email, SMS, and/or SNMP.

Power
Control network attached PDU power strips and server, network and storage devices.

For additional configuration options, how-tos and tips please refer to your *NSC User Guide.*

10 Get technical updates

To automatically receive future firmware updates and technical information, sign up here: ***www.zpesystems.com/loop/***