

Moxa NPort 6650-16

MOXA NPort 6650-16 Secure Device Server User Manual

Model: NPort 6650-16

1. INTRODUCTION

The MOXA NPort 6650-16 is a 16-port rackmount RS-232/422/485 secure device server designed for connecting serial devices to an Ethernet network. It provides robust and secure data transmission, enabling remote access and management of serial equipment over IP networks. This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your NPort 6650-16 device server.

2. SETUP

2.1 Unpacking and Inspection

Before proceeding with installation, carefully unpack the NPort 6650-16 and verify that all components are present and undamaged. The package should typically include:

- MOXA NPort 6650-16 Secure Device Server unit
- Power cord (100V~240VAC input)
- Rackmount kit
- Documentation (Quick Installation Guide, Warranty Card)

If any items are missing or damaged, contact your vendor immediately.

2.2 Hardware Description

The NPort 6650-16 features a modular design with various ports and indicators for easy monitoring and connectivity.



Figure 1: Front and rear view of the MOXA NPort 6650-16 Secure Device Server. The top unit shows the front panel with MOXA branding, status LEDs (PWR, Ready, Link, Alarm), a Reset button, and an SD card slot. The bottom unit shows the rear panel with DC power input (88-300V), a Network Module slot, DOUT, two LAN ports, a Console port, and 16 serial ports (numbered 17-32 on the top row, and 1-16 on the bottom row).

2.2.1 Front Panel

- **LED Indicators:** PWR (Power), Ready, Link, Alarm. These LEDs provide visual status of the device's operation.
- **Reset Button:** Used to reset the device to factory defaults or reboot.
- **SD Card Slot:** For storage or configuration backup.
- **Serial Port LEDs:** Individual LEDs for each of the 16 serial ports, indicating 'In Use', 'Tx' (Transmit), and 'Rx' (Receive) activity.

2.2.2 Rear Panel

- **DC Power Input (88-300V):** Terminal block for connecting the DC power supply.
- **Network Module Slot:** For optional network modules, supporting features like Ethernet redundancy.
- **DOUT:** Digital Output terminal.
- **LAN Ports:** Two Ethernet ports for network connectivity.
- **Console Port:** RJ45 port for local management and configuration via a terminal emulator.
- **Serial Ports (16 ports):** RJ45 ports for connecting RS-232/422/485 serial devices.

2.3 Installation

2.3.1 Rackmount Installation

Attach the provided rackmount brackets to the sides of the NPort 6650-16 unit using the screws. Secure the unit into a standard 19-inch equipment rack. Ensure adequate ventilation around the device.

2.3.2 Power Connection

Connect the provided power cord to the DC power input terminal block on the rear panel. Ensure the power source is within the specified 100V~240VAC range. Secure the power cable to prevent accidental disconnection.

2.3.3 Network Connection

Connect an Ethernet cable from your network switch or router to one of the LAN ports on the rear panel of the NPort 6650-16. The Link LED on the front panel should illuminate to indicate a successful connection.

2.3.4 Serial Device Connection

Connect your RS-232/422/485 serial devices to the serial ports on the rear panel using appropriate cables. Refer to the device's documentation for pin assignments if custom cabling is required.

2.4 Initial Configuration

After physical installation, the device server requires initial network configuration. This can typically be done via the Console port using a terminal emulator or by discovering the device on the network using MOXA's utility software. Assign a static IP address, subnet mask, and gateway appropriate for your network environment.

3. OPERATING

3.1 Power On and Status Check

Once power is connected, the PWR LED on the front panel should light up. The Ready LED will indicate when the device server has completed its boot sequence and is operational. Observe the Link LEDs for network connectivity and the serial port LEDs for data activity.

3.2 Network Configuration

Access the device server's web-based management interface or console interface to configure network parameters. This includes setting the IP address, subnet mask, default gateway, and DNS servers. Ensure these settings are compatible with your existing network infrastructure.

3.3 Serial Port Configuration

Each of the 16 serial ports can be individually configured. Key parameters include:

- **Baud Rate:** Data transmission speed (e.g., 9600, 115200 bps). Nonstandard baudrates are supported with high precision.
- **Data Bits:** Number of data bits (e.g., 7, 8).
- **Parity:** Error checking method (None, Odd, Even, Mark, Space).
- **Stop Bits:** Number of stop bits (e.g., 1, 2).
- **Flow Control:** Hardware (RTS/CTS) or Software (XON/XOFF) flow control.
- **Operating Mode:** TCP Server, TCP Client, UDP, Pair Connection, Real COM mode, etc.

3.4 Security Features

The NPort 6650-16 incorporates advanced security features to protect data transmissions. These include DES/3DES/AES encryption for secure communication. The device also adheres to security features based on IEC 62443 standards, ensuring robust industrial cybersecurity.

3.5 Data Transmission and Port Buffers

The device server facilitates seamless data transmission between connected serial devices and the Ethernet network. It includes port buffers for storing serial data when the Ethernet connection is temporarily offline, preventing data loss during network interruptions.

4. MAINTENANCE

4.1 Firmware Updates

Periodically check the MOXA website for firmware updates. Firmware updates can provide new features, performance improvements, and security enhancements. Follow the instructions provided with the firmware package for a safe update process.

4.2 Cleaning

Ensure the device server is powered off and disconnected from all power sources before cleaning. Use a soft, dry cloth to wipe the exterior of the unit. Do not use liquid or aerosol cleaners, as they may damage the device.

4.3 Environmental Considerations

Maintain the operating environment within the specified temperature and humidity ranges to ensure optimal performance and longevity of the device. Avoid exposing the unit to excessive dust, moisture, or direct sunlight.

5. TROUBLESHOOTING

5.1 Common Issues and Solutions

- **No Power (PWR LED off):** Check the power cable connection and the power source. Ensure the input voltage is within the 100V~240VAC range.
- **No Network Connectivity (Link LED off):** Verify the Ethernet cable connection to the network switch/router. Check network settings (IP address, subnet mask, gateway).
- **Serial Communication Problems:** Confirm serial port settings (baud rate, data bits, parity, stop bits, flow control) match the connected serial device. Check serial cable integrity and pinout.
- **Device Not Responding:** Try rebooting the device server. If the issue persists, perform a factory reset using the Reset button (refer to the Quick Installation Guide for specific steps).

5.2 LED Indicator Meanings

LED	Status	Description
PWR	On	Device is powered on.
Ready	On	Device has completed boot-up and is ready for operation.
Link	On	Ethernet link is established.
Alarm	On/Flashing	Indicates a system error or warning. Refer to logs for details.
Serial Port (In Use)	On	Serial port is actively connected or in use.
Serial Port (Tx)	Flashing	Data is being transmitted from the serial port.
Serial Port (Rx)	Flashing	Data is being received by the serial port.

6. SPECIFICATIONS

Feature	Description
Model	NPort 6650-16
Ports	16 x RS-232/422/485 Serial Ports
Input Voltage	100V~240VAC (via power cord) / DC(88-300V) (via terminal block)
Baud Rate Support	Nonstandard baudrates supported with high precision
Data Buffering	Port buffers for storing serial data when the Ethernet is offline
Network Redundancy	Supports IPv6 / Ethernet redundancy (STP/RSTP/Turbo Ring) with network module
Design	Modular design for scalability
Security	DES/3DES/AES for highly secure data transmissions, Security features based on IEC 62443

Feature	Description
Package Dimensions	21 x 12 x 5 inches
Item Weight	8.28 pounds
Manufacturer	Moxa Inc.
Date First Available	February 9, 2018

7. WARRANTY AND SUPPORT

7.1 Warranty Information

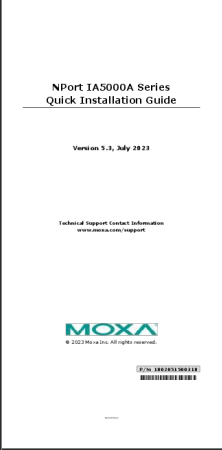
Warranty terms and conditions for the MOXA NPort 6650-16 are typically provided with the product packaging or can be found on the official Moxa website. Please retain your proof of purchase for warranty claims.

7.2 Technical Support

For technical assistance, troubleshooting, or further inquiries regarding the MOXA NPort 6650-16, please visit the official Moxa support website or contact their customer service department. Online resources often include FAQs, driver downloads, and additional documentation.

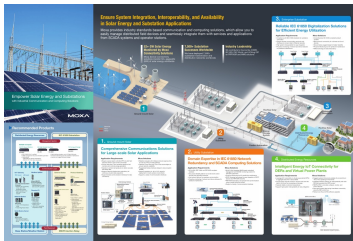
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Related Documents - NPort 6650-16

 NPort IA5000A Series Quick Installation Guide Version 5.3, July 2023 Technical Support Contact Information www.moxa.com/support MOXA © 2023 Moxa Inc. All rights reserved. ATX INDUSTRIAL MOKKA MOXA CORPORATION	Moxa NPort IA5000A Series Quick Installation Guide - Industrial Serial-to-Ethernet Device Servers Comprehensive quick installation guide for the Moxa NPort IA5000A Series, covering overview, package contents, hardware introduction, installation procedures, LED indicators, pin assignments, ATEX/IECEX information, and software setup for industrial serial-to-Ethernet connectivity.
 NPort 5400 Series Quick Installation Guide Version 7.3, April 2023 Technical Support Contact Information www.moxa.com/support MOXA © 2023 Moxa Inc. All rights reserved. ATX INDUSTRIAL MOKKA MOXA CORPORATION	Moxa NPort 5400 Series Quick Installation Guide Quick installation guide for Moxa's NPort 5400 Series 4-port serial device servers, covering models like NPort 5410, 5430, 5430I, 5450, 5450I, and their -T variants. Details hardware overview, package contents, installation procedures, pin assignments, and environmental specifications.

NPort 5100A Series Quick Installation Guide Version 3.3, January 2021 Technical Support Contact Information www.moxa.com/support  © 2021 Moxa Inc. All rights reserved. 	Moxa NPort 5100A Series Quick Installation Guide This guide provides quick installation instructions for the Moxa NPort 5100A series of device servers, including hardware overview, installation steps, and specifications.
NPort 6150/6250 Series Quick Installation Guide Version 11.1, January 2021 Technical Support Contact Information www.moxa.com/support  © 2021 Moxa Inc. All rights reserved. 	MOXA NPort 6150/6250 Series Quick Installation Guide Setup and Configuration MOXA NPort 6150/6250 Series: A Quick Installation Guide providing essential information on setup, hardware features, LED indicators, DIP switch settings, installation procedures, placement options, software configuration, and serial port pin assignments for these secure serial device servers.
NPort 5200 Series Quick Installation Guide Version 8.5, March 2020 Technical Support Contact Information www.moxa.com/support  © 2020 Moxa Inc. All rights reserved. 	Moxa NPort 5200 Series Quick Installation Guide This guide provides essential information for the quick installation of Moxa's NPort 5200 Series device servers, including hardware introduction, package checklist, and software installation details.

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[pdf] User Manual Datasheet

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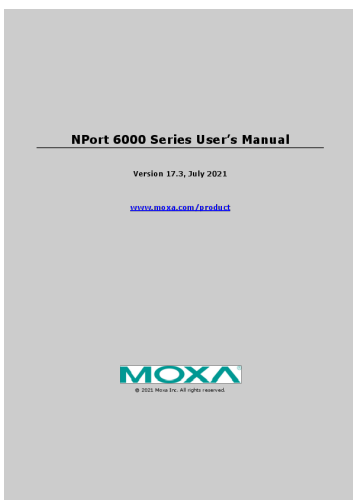
NPort 6400/6600 Series 4/8/16/32-port RS-232/422/485 secure terminal servers Features and Benefits ... NPort 6610-16 Models: 102,373 hrs NPort 6610-32 Models: 68,707 hrs NPort 6650-8 Models: 636,600 hrs NPort 6650-16 Models: 439,673 hrs NPort 6650-32 Models: 310,078 hrs NPort 6650-8-HV-T: 501,171 hrs N... lang:en **score:35** filesize: 1.08 M page_count: 11 document date: 2022-06-20



[pdf] Specifications

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4/8/16/32-port RS-232/422/485 secure terminal servers



- L2D panel for easy IP address configuration (standard temp. models)
- Secure operation modes for RS-485, TCP Server, TCP Client, Pair Connection, Terminal, and Reverse Terminal
- Nonstandard baudrates supported with high precision
- Port buffers for storing serial data when the Ethernet is offline
- Supports IPv6
- Ethernet redundancy (STP/RSTP/Turbo Ring) with network module
- Generic serial commands supported in Command-by-Command mode
- Security features based on IEC 62443

The NPort 6600 is a terminal server that uses the serial and store protocols to transmit encrypted serial data over Ethernet, up to 32 secure devices of any type can be connected to the NPort 6600 using the same IP address. The Ethernet port can be configured for a normal or secure TCP/IP connection. The NPort 6600 secure device servers are the right choice for applications that use large numbers of serial devices packed into a rack. Security, security level, and security level are all supported. The NPort 6600 also ensures data transmission integrity with support for DES, 3DES, and AES encryption algorithms. Serial devices of any type can be connected to the NPort 6600, and each serial port on the NPort 6600 can be configured independently for RS-232, RS-422, or RS-485 transmission.

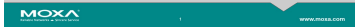
No Data Loss If Ethernet Connection Fails

The NP400 6000 is a reliable device server that provides users with secure serial-to-Ethernet data transmission and a customer-oriented hardware design. If the Ethernet connection fails, the NP400 6000 will queue all serial data in its internal 64 KB port buffer. When the Ethernet connection is re-established, the NP400 6000 will immediately release all data in the buffer in the order that it was received. Users can increase the port buffer size by installing an SD card.

Note: The LCD panel is only available with standard-temperature models.



low resistors for RS-485 communication. In some critical environments, termination resistors may be needed to prevent the reflection of serial signals, and the gull-high and gull-low resistors may need adjusting to maintain the integrity of the electrical signal. Since no set of resistor values works for every environment, the NPort® 6800 allows manual adjustment of the resistor values for each serial port using built-in DIP switches.



NPort 6000 Series with PPP over RS-422

Configuring NPort 6000 Series servers for PPP connection over RS-422 in a backup network

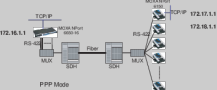
Andy Chu, Engineer, MOXA Technical Support Dept

In this Technical Note, we cover the following topics:

1. Establishing PPP connections over RS-422 for backup network
2. Configuring the NPort 6650 to communicate with multiple NPort 6150 servers
3. Configuring NPort 6150 servers to communicate with the NPort 6650

1. Establishing PPP connections over RS-422 for backup network

In a MOXA project for the Taipei metro system, the client wanted to use PPP connections over existing RS-422 lines as a backup network. The diagram below shows the type of architecture that was used to achieve this:



In this paper, we will explain how to configure the NPort 6650-16 and NPort 6150 for this architecture. This may be used as a starting reference point for other similar scenarios.

The following related products are also available for this kind of application:
iPort 6020 Series (including NPort 6650, 6450, 6250, and 6150 models).

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About MOXA
The MOXA Group manufactures one of the world's leading brands of device networking solutions. Products include serial boards, USB-to-serial Hubs, media converters, device servers, embedded computers, Ethernet-to-serial converters, serial servers, Modbus gateways, industrial switches, and Ethernet-to-fiber converters. Our products are key components of many networking applications, including industrial automation, manufacturing, POS, and medical equipment facilities.

How to Contact MOXA

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Eleventh Edition, February 2015



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Features and Benefits ... NPort 6610-16 Series: 102,373 hrs NPort 6610-32 Series:

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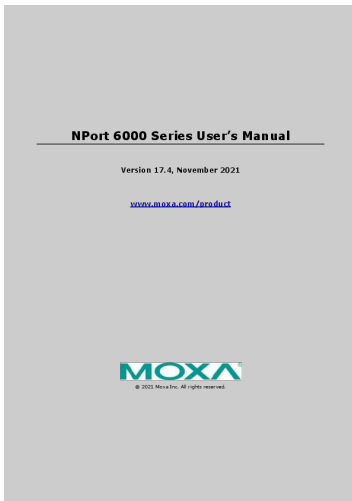
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Features and Benefits ... NPort 6610-16 Series: 102,373 hrs NPort 6610-32 Series:
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Nport серии 6000

Руководство пользователя

Четвертое издание, июнь 2008



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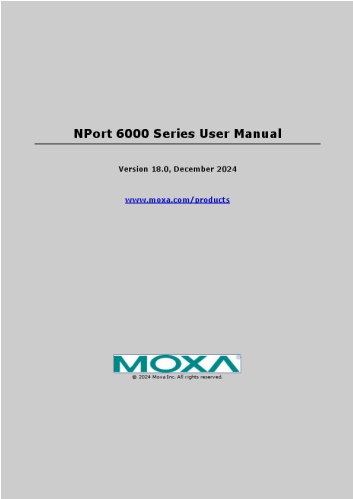
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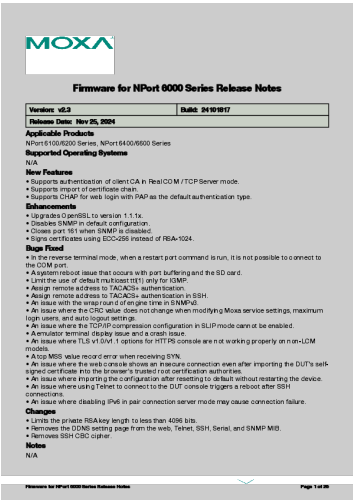
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[pdf] Release Notes

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History |||

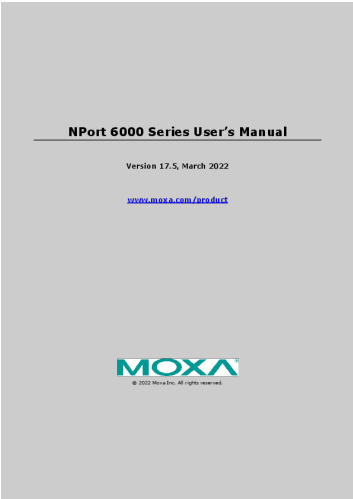
Firmware for NPort 6000 Series Release Notes Version: v2.3 Build: 24101817

Release Date: Nov 25, ... NPort 6610-32, NPort 6610-32-48V, NPort 6650-8, NPort

6650-8T, NPort 6650-8-HV-T, NPort 6650-8-48V, NPort 6650-16, NPort 6650-16-48V,

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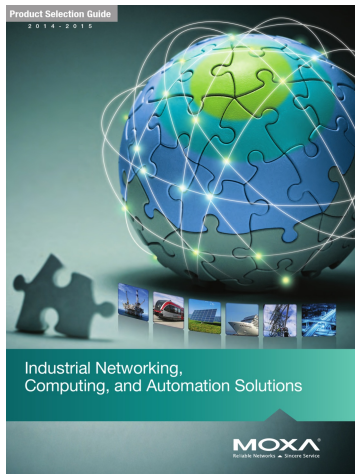
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NPort 6610-32-48V NPort 6650-8/ NPort 6650-8-T NPort 6650-16/ NPort 6650-16-T

NPort 6650-32 NPort 6650-8-48V NPort 6650-16-48V NPort 6650-32-48V NP...

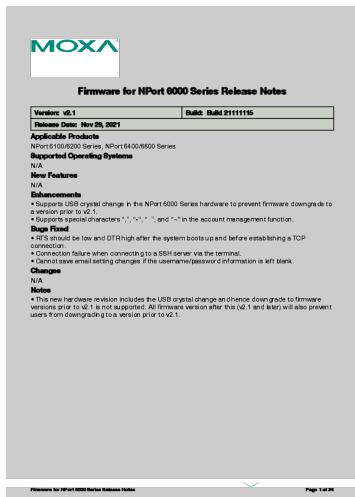
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Industrial Networking Computing and Automation Solutions 2014 Product Selection Guide support elmark
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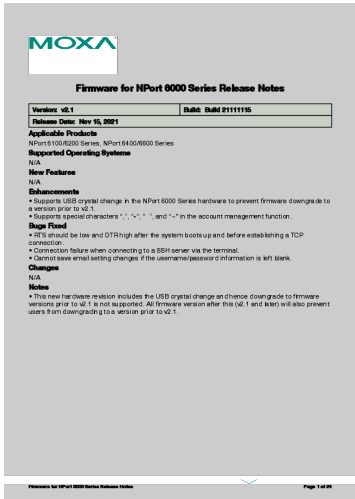
Product Selection Guide 2014-2015 Industrial Networking, Computing, and Automation Solutions About ... RTC, WDT MTBF Warranty NPort 6610-32 NPort 6610-32-48V NPort 6650-8/ 6650-8-T NPort 6650-8-48V NPort 6650-16/ 6650-16-T NPort 6650-16-48V NPort 6650-32 NPort 6650-32-48V 1 port 8-pin RJ45 co...
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[\[pdf\]](#) Documentation Release Notes

Release notes NPort 6400 6600 Series Software Documentation MOXA moxa nport 6000 series firmware
v2 1 rom History cdn cms azureedge net Moxa media PDIM S100000218 |||

Firmware for NPort 6000 Series Release Notes Version: v2.1 Build: Build 21111115
Release Date: No ... NPort 6610-32, NPort 6610-32-48V, NPort 6650-8, NPort 6650-8T, NPort 6650-8-HV-T, NPort 6650-8-48V, NPort 6650-16, NPort 6650-16-48V, NPort 6650-16-T, NPort 6650-16-HV-T, NPort 6650-32, NPort 6650-32-...
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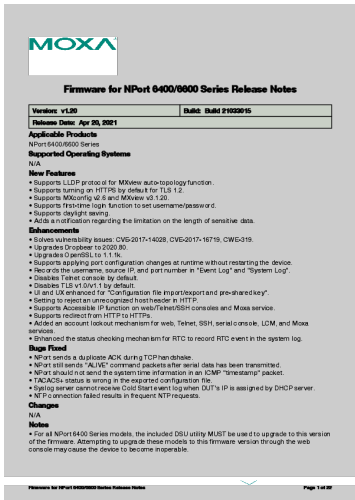
[pdf] Documentation Release Notes

Release notes NPort 6100 6200 Series Software Documentation MOXA moxa nport 6000 series firmware v2 1 rom History cdn cms azureedge net Moxa media PDIM S100000217 |||

Firmware for NPort 6000 Series Release Notes Version: v2.1 Build: Build 21111115

Release Date: No ... NPort 6610-32, NPort 6610-32-48V, NPort 6650-8, NPort 6650-8T, NPort 6650-8-HV-T, NPort 6650-8-48V, NPort 6650-16, NPort 6650-16-48V, NPort 6650-16-T, NPort 6650-16-HV-T, NPort 6650-32, NPort 6650-32-...

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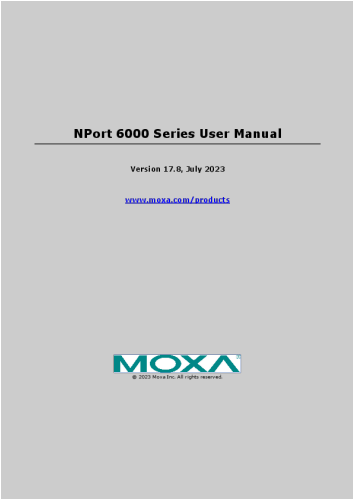


[pdf] Release Notes

6600 Series moxa nport 6400 series firmware v1 20 zip Software Release Historymoxa Moxa media PDIM S100000218 History |||

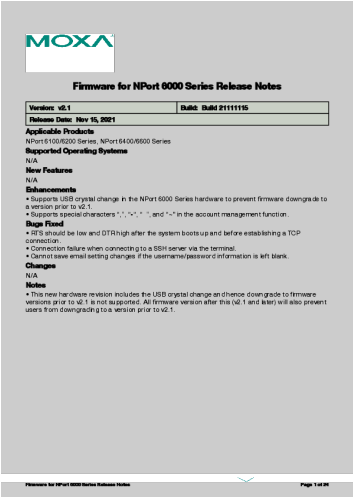
Firmware for NPort 6400/6600 Series Release Notes Version: v1.20 Build: Build 21033015 Release Da ... NPort 6610-32, NPort 6610-32-48V, NPort 6650-8, NPort 6650-8T, NPort 6650-8-HV-T, NPort 6650-8-48V, NPort 6650-16, NPort 6650-16-48V, NPort 6650-16-T, NPort 6650-16-HV-T, NPort 6650-32, NPort 6650-32-...

lang:en score:29 filesize: 80.03 K page_count: 22 document date: 2021-05-12



[pdf] User Manual Warranty

NPort 6000 Series User Manual Moxa Inc 6400 6600 Terminal Servers MOXA moxa nport series manual v17 8 cdn cms azureedge net getmedia a48d19e8 7cbb 474a a780 2af7d8e1c6e1 ||| NPort 6000 Series User Manual Version 17.8, July 2023 www.moxa.com/products 2023 Moxa Inc. All righ ... -16 NPort 6610-32 NPort 6610-8-48V NPort 6610-16-48V NPort 6610-32-48V NPort 6650-8/ NPort 6650-8-T NPort 6650-16/ NPort 6650-16-T NPort 6650-32 Number of Serial Ports 8 16 RS-232 32 8 16 RS-2... lang:en score:29 filesize: 19.2 M page_count: 208 document date: 2023-07-13



[pdf] Release Notes

6200 Series moxa nport 6000 series firmware v2 1 rom Software Release Historymoxa Moxa media PDIM S100000217 History ||| Firmware for NPort 6000 Series Release Notes Version: v2.1 Build: Build 21111115 Release Date: No ... NPort 6610-32, NPort 6610-32-48V, NPort 6650-8, NPort 6650-8T, NPort 6650-8-HV-T, NPort 6650-8-48V, NPort 6650-16, NPort 6650-16-48V, NPort 6650-16-T, NPort 6650-16-HV-T, NPort 6650-32, NPort 6650-32-... lang:en score:29 filesize: 83.11 K page_count: 24 document date: 2022-11-18

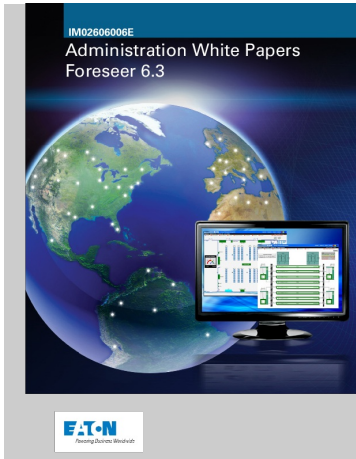


[pdf] Release Notes

MGate MB3660 Series moxa cli configuration tool for linux utility v1 1 zip Software Release History Moxa media PDIM S100000191

Moxa CLI Configuration Tool for Linux Release Notes Version: v1.1 Build: 18111613
Release Date: N ... Logik E1240-T, NPort 6610-32-48V, NPort 6650-8, NPort 6650-8-T, NPort 6650-8-HV-T, NPort 66508-48V, NPort 6650-16, NPort 6650-16-48V, NPort 6650-16-T, NPort 6650-16-HV-T, ioLogik E1241, ioLogik E1241-...

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[pdf] Confidentiality Request Letter

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lang:en score:29 filesize: 1.29 M page_count: 34 document date: 2015-12-07



Moxa CLI Configuration Tool for Windows Release Notes

Version: v1.1	Build: 10111013
Release Date: May 16, 2018	

Applicable Products

M300 M310 M319 M320 M330 M340 M350 M351 M352 M353 M354 M355 M356 M357
 M358 M359 M360 M361 M362 M363 M364 M365 M366 M367 M368 M369 M370 M371
 M372 M373 M374 M375 M376 M377 M378 M379 M380 M381 M382 M383 M384 M385
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 M988 M989 M990 M991 M992 M993 M994 M995 M996 M997 M998 M999

Supported Operating Systems

Windows 10, Windows 7, Windows 8, Windows 8.1, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012 R2, Windows Server 2015

New Features

- Support for plugins.
- Support for ioThinX 45 to.
- Support for new error code = 16.
- Support for new commands: (1) `mooc tool -install "plugin"` (2) `mooc tool -ml`

Enhancements

N/A
 Days Fixed

Bugs Fixed
N/A

Changes

N/A

Notes
N/A

[\[pdf\]](#) Release Notes

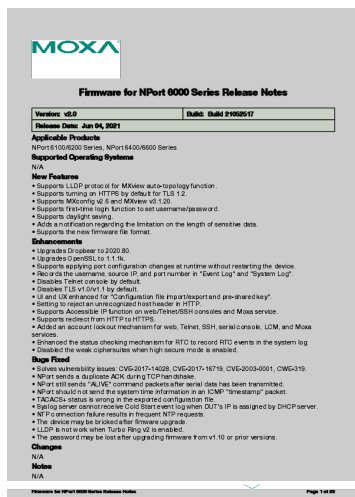
MGate MB3660 Series moxa cli configuration tool for windows utility v1 1 zip Software Release History

Moxa media PDIM S100000191

Moxa CLI Configuration Tool for Windows Release Notes Version: v1.1 Build:

18111613 Release Date: ... NPort 6610-32, NPort 6610-32-48V, NPort 6650-8, NPort 6650-8T, NPort 6650-8-HV-T, NPort 6650-8-48V, NPort 6650-16, NPort 6650-16-48V, NPort 6650-16-T, NPort 6650-16-HV-T, NPort 6650-32, NPort 6650-32-...

lang:af score:29 filesize: 45.22 K page_count: 2 document date: 2021-04-21



Firmware for NPort 6000 Series Release Notes

Version: v2.0	Build: Build 21052517
Release Date: Jun 04, 2021	

Applicable Products

NPort 6100/6200 Series, NPort 6400/6600 Series

Supported Operating Systems

- ### New Features
- Supports LLDP protocol for MXview auto-topology function.
 - Supports turning on HTTPS by default for TLS 1.2.
 - Supports MXconfig v2.6 and MXview v3.120.
 - Supports first-time login function to set username/password.
 - Supports daylight saving.
 - Adds a notification regarding the limitation on the length of sensitive data.
 - Supports the new firmware file format.

Enhancements

- Upgrades Dropbear to 2020.80.
- Upgrades OpenSSL to 1.1.1.
- Supports applying port configuration changes at runtime without restarting the device.
- Recovers the firmware source IP and port number in "Event Log" and "System Log".
- Disables Telnet console by default.
- Disables TFTP v0/v1 by default.
- Recovers the Enhanced Configuration file import/exported pre-shared key.
- Setting to reject an unrecognized host header in HTTP.
- Supports Accessible IP function on web/Telnet/SSH consoles and Moxa service.
- Supports redirect from HTTP to HTTPS.
- Added an account lockout mechanism for web, Telnet, SSH, serial console, L2M, and Moxa services.
- Disabled the status checking mechanism for RTC to record RTC events in the system log.
- Disabled the weak cipher suites when high secure mode is enabled.

Bugs Fixed

- Solves vulnerability issues: CVE-2017-14028, CVE-2017-16719, CVE-2000-0501, CWS-319.
- NPOT sends a duplicate ACK during TCP handshake.
- NPOT still sends "ALIVE" command packets after serial data has been transmitted.
- NPOT should not send the system time information in an ICMP "timestamp" packet.
- TACACS+ status is wrong in the exported configuration file.
- Catalyst8 never can receive Cold Start event log when DUT's IP is assigned by DHCP server
- NTP o connection failure results in frequent NTP requests.
- The device may be bricked after firmware upgrade.
- LLDP is not work when Turbo Ring v2 is enabled.
- The password may be lost after upgrading firmware from v1.10 or prior versions.

Changes

N/A

Notes

N/A

[\[pdf\]](#) Release Notes

6200 Series moxa nport 6000 series firmware v2 0 rom Software Release History cdn cms azureedge net

Moxa media PDIM S100000217 |||

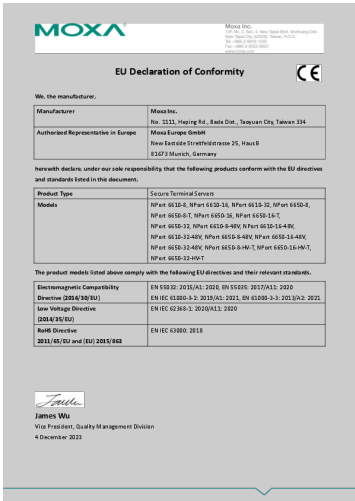
Firmware for NPort 6000 Series Release Notes Version: v2.0 Build: Build 21052517

Release Date: Ju ... NPort 6610-32, NPort 6610-32-48V, NPort 6650-8, NPort 6650-

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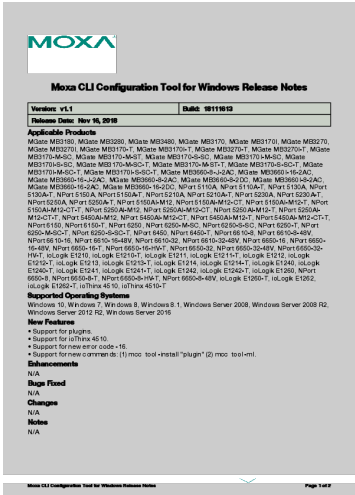
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[pdf] Declaration of Conformity

v1 3 Wade PT Wang NPort 6400 6600 MOXA moxa declaration of conformity for nport series 0
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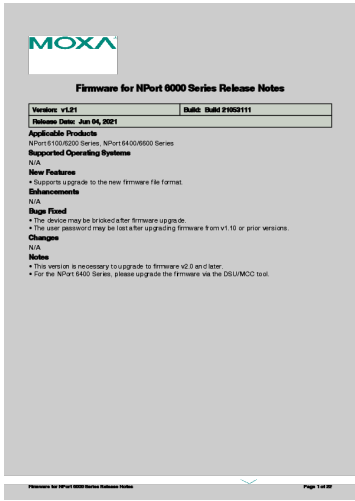
EU Declaration of Conformity We, the manufacturer, Manufacturer Authorized
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[pdf] Release Notes

MB3270 Series moxa cli configuration tool for windows utility v1 1 zip Software Release History Moxa
media PDIM S100000190

Moxa CLI Configuration Tool for Windows Release Notes Version: v1.1 Build:
18111613 Release Date: ... NPort 6610-8, NPort 6610-8-48V, NPort 6610-16, NPort
6610-16-48V, NPort 6610-32, NPort 6610-32-48V, NPort 6650-16, NPort 665016-48V,
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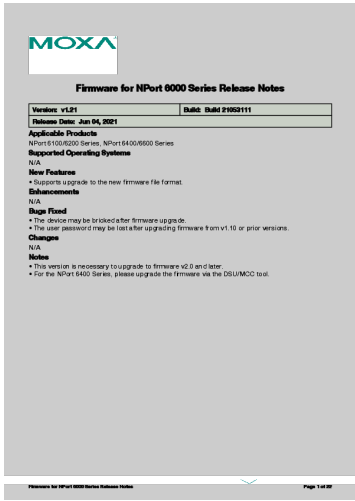


[pdf] Documentation Release Notes

Release notes NPort 6100 6200 Series Software Documentation MOXA moxa nport 6000 series firmware v1 21 rom History cdn cms azureedge net Moxa media PDIM S100000217 |||

Firmware for NPort 6000 Series Release Notes Version: v1.21 Build: Build 21053111
Release Date: J ... NPort 6610-32, NPort 6610-32-48V, NPort 6650-8, NPort 6650-8T, NPort 6650-8-HV-T, NPort 6650-8-48V, NPort 6650-16, NPort 6650-16-48V, NPort 6650-16-T, NPort 6650-16-HV-T, NPort 6650-32, NPort 6650-32-...

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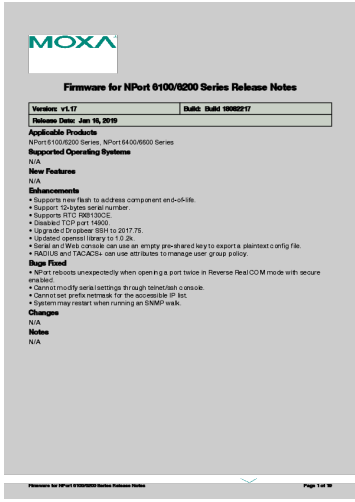


[pdf] Documentation Release Notes

Release notes NPort 6400 6600 Series Software Documentation MOXA moxa nport 6000 series firmware v1 21 rom History cdn cms azureedge net Moxa media PDIM S100000218 |||

Firmware for NPort 6000 Series Release Notes Version: v1.21 Build: Build 21053111
Release Date: J ... NPort 6610-32, NPort 6610-32-48V, NPort 6650-8, NPort 6650-8T, NPort 6650-8-HV-T, NPort 6650-8-48V, NPort 6650-16, NPort 6650-16-48V, NPort 6650-16-T, NPort 6650-16-HV-T, NPort 6650-32, NPort 6650-32-...

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[pdf] Release Notes

6200 Series moxa nport 6100 series firmware v1 17 rom Software Release History Moxa media PDIM S100000217

Firmware for NPort 6100/6200 Series Release Notes Version: v1.17 Build: Build 18082217 Release Da ... NPort 6610-32, NPort 6610-32-48V, NPort 6650-8, NPort 6650-8T, NPort 6650-8-HV-T, NPort 6650-8-48V, NPort 6650-16, NPort 6650-16-48V, NPort 6650-16-T, NPort 6650-16-HV-T, NPort 6650-32, NPort 6650-32-...

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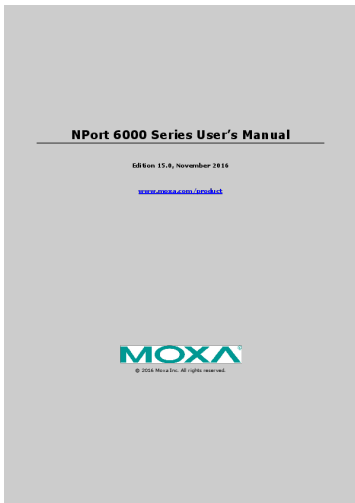


[\[pdf\]](#) Release Notes

6600 Series moxa nport 6400 series firmware v1 17 rom Software Release History Moxa media PDIM S100000218

Firmware for NPort 6400/6600 Series Release Notes Version: v1.17 Build: Build 18082217 Release Da ... NPort 6610-32, NPort 6610-32-48V, NPort 6650-8, NPort 6650-8T, NPort 6650-8-HV-T, NPort 6650-8-48V, NPort 6650-16, NPort 6650-16-48V, NPort 6650-16-T, NPort 6650-16-HV-T, NPort 6650-32, NPort 6650-32-...

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NPort 6000 Series User s Manual 211 Moxa MOXA The series of secure serial device servers has many exceptional features More than 20 models comprise the UM e15 0 support elmark pl moxa products Serwery portow szeregowych manual

NPort 6000 Series User s Manual Edition 15.0, November 2016

www.moxa.com/product 2016 Moxa Inc. All ... -16 NPort 6610-32 NPort 6610-8-48V NPort 6610-16-48V NPort 6610-32-48V NPort 6650-8/ NPort 6650-8-T NPort 6650-16/ NPort 6650-16-T NPort 6650-32 NPort 6650-8-48V NPort 6650-16-48V NPort 6650-32-48V NP...

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[\[pdf\]](#) Release Notes

6200 Series moxa nport 6000 series firmware v1 18 rom Software Release History Moxa media PDIM S100000217

Firmware for NPort 6100/6200/6400/6600 Series Release Notes Version: v1.18 Build: 19040311 Releas ... NPort 6610-32, NPort 6610-32-48V, NPort 6650-8, NPort 6650-8T, NPort 6650-8-HV-T, NPort 6650-8-48V, NPort 6650-16, NPort 6650-16-48V, NPort 6650-16-T, NPort 6650-16-HV-T, NPort 6650-32, NPort 6650-32-...

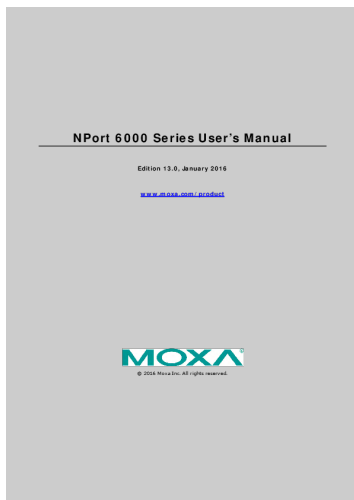
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6600 Series moxa nport 6000 series firmware v1 18 rom Software Release History Moxa media PDIM S100000218

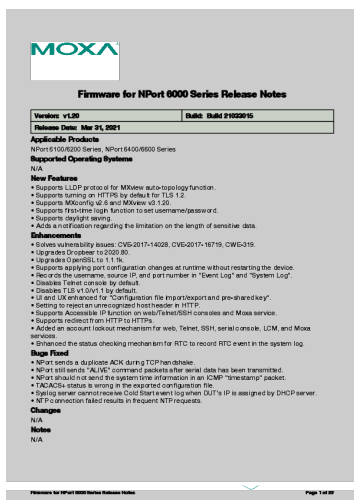
Firmware for NPort 6100/6200/6400/6600 Series Release Notes Version: v1.18 Build: 19040311 Releas ... NPort 6610-32, NPort 6610-32-48V, NPort 6650-8, NPort 6650-8T, NPort 6650-8-HV-T, NPort 6650-8-48V, NPort 6650-16, NPort 6650-16-48V, NPort 6650-16-T, NPort 6650-16-HV-T, NPort 6650-32, NPort 6650-32-...
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NPort 6000 Series User s Manual 108 Moxa UM e13 0 moxa 80 doc man

NPort 6000 Series User s Manual Edition 13.0, January 2016 www.moxa.com/product 2016 Moxa Inc. All ... -16 NPort 6610-32 NPort 6610-8-48V NPort 6610-16-48V NPort 6610-32-48V NPort 6650-8/ NPort 6650-8-T NPort 6650-16/ NPort 6650-16-T NPort 6650-32 NPort 6650-8-48V NPort 6650-16-48V NPort 6650-32-48V NP...
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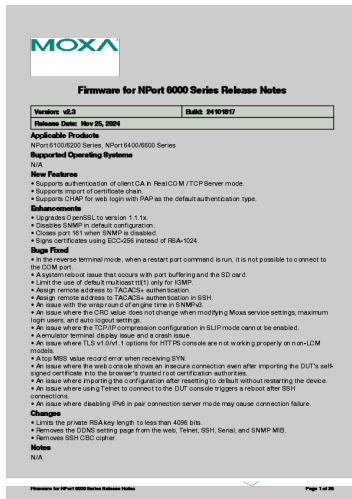


[\[pdf\]](#) Release Notes

Firmware for NPort 6000 Series Release Notes Version v1 20 Build 21033015 Date Mar 31 2021

Applicable Products 6200 moxa nport series firmware rom Software History Moxa media PDIM S100000217

Firmware for NPort 6000 Series Release Notes Version: v1.20 Build: Build 21033015 Release Date: M ... NPort 6610-32, NPort 6610-32-48V, NPort 6650-8, NPort 6650-8T, NPort 6650-8-HV-T, NPort 6650-8-48V, NPort 6650-16, NPort 6650-16-48V, NPort 6650-16-T, NPort 6650-16-HV-T, NPort 6650-32, NPort 6650-32-...
lang:en score:28 filesize: 79.77 K page_count: 22 document date: 2021-04-20



Version: v2.3	Build: 24101817
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Release Date: Nov 25, 2025

NPort 6100/6200 Series

NPort 6100/6200 Series, NPort 6400/6500 Series

Supported Operating Systems

New Features

- Supports import of certificate chain.
- Supports CHAP for web login with PAP as the default authentication type.

Enhancements

- Disables SNMP in default configuration.
- Closes port 161 when SNMP is disabled.
- Signs certificates using ECC-256 instead of RSA-1024.

Bugs Fixed

- As system reboot issue that occurs with port buffering and the SD card.
- Limit the use of default multicast (224) only for IGMP.
- Assign remote address to TACACS+ authentication.
- Assign remote address to TACACS+ authentication in SSH.
- An issue with the wrap round of engine time in SNMPv4.
- An issue where the CRC value does not change when modifying Moxa service settings, maximum topology users, and auto login settings.

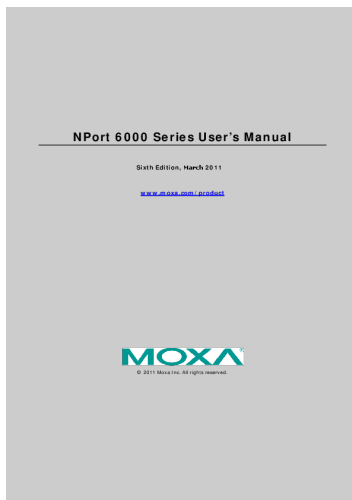
- A controller for

- An issue where TLS v1.1 options for HTTPS console are not working properly in non-LDM mode.
- A top MSS value record error when receiving SYN.
- An issue where the console shows an insecure connection even after importing the DUT's self signed certificate into the browser's trusted root certification authorities.
- An issue where importing the configuration after resetting to default without restarting the device.
- An issue where using Telnet to connect to the DUT console triggers a reboot after SSH connections.
- An issue where disabling IPv6 in pair connection server mode may cause connection failure.

Changes

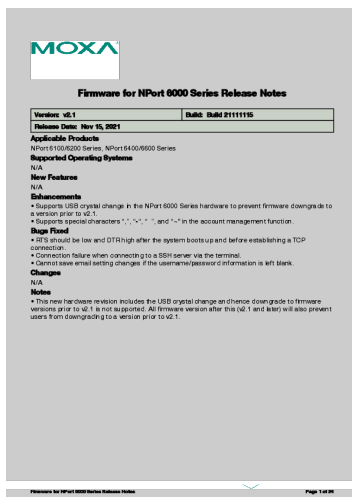
- Removes the DDNS setting page from the web, Telnet, SSH, Serial, and SNMP MIB.
- Removes SSH CBC cipher.

Notes



Sixth Edition, March 2011

www.moxa.com/product



Version: v2.1

Build: Build 21111115

Applicable Discounts:

Applicable Products:

NDPort 6100/6200 Series NDPort 641

PLA

- | | |
|---------------------|--|
| New Features | |
| N/A | |
| Enhancements | |

- Supports USB c

- Supports special characters "*", " ", " ", and " " in the account management function

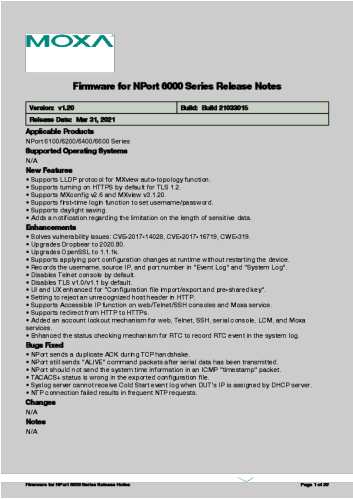
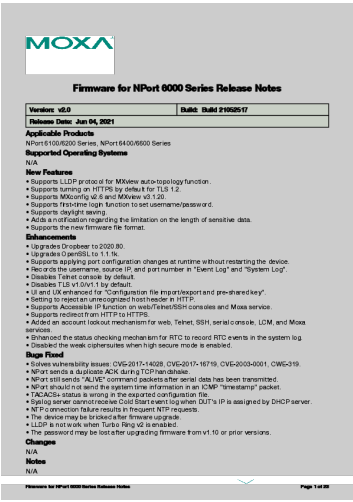
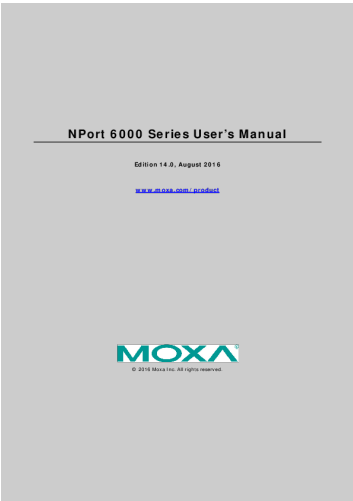
• GPS should be

- Connection failure when connecting to a SSH server via the terminal.
- Cannot save email setting changes if the username/password information is left blank.

Changes

- Notes**
- This new hardware revision includes the USB crystal change and hence, down grade to firmware versions prior to v2.1 is not supported. All firmware version after this (v2.1 and later) will also prevent users from downgrading to a version prior to v2.1.

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[pdf] User Manual Warranty

NPort 6000 Series User s Manual 110 Moxa Information provided in this manual is intended to be accurate and reliable However assumes no responsibility for its use or any infringements on UM e14 0 support elmark pl moxa products Serwery portow szeregowych

NPort 6000 Series User s Manual Edition 14.0, August 2016 www.moxa.com/product 2016 Moxa Inc. All r ... -16 NPort 6610-32 NPort 6610-8-48V NPort 6610-16-48V NPort 6610-32-48V NPort 6650-8/ NPort 6650-8-T NPort 6650-16/ NPort 6650-16-T NPort 6650-32 NPort 6650-8-48V NPort 6650-16-48V NPort 6650-32-48V NP... lang:en score:28 filesize: 16.65 M page_count: 179 document date: 2016-08-07

[pdf] Release Notes

moxa nport 6000 series firmware v2 0 rom software release history ru files Release notes ||| Firmware for NPort 6000 Series Release Notes Version: v2.0 Build: Build 21052517 Release Date: Ju ... NPort 6610-32, NPort 6610-32-48V, NPort 6650-8, NPort 6650-8T, NPort 6650-8-HV-T, NPort 6650-8-48V, NPort 6650-16, NPort 6650-16-48V, NPort 6650-16-T, NPort 6650-16-HV-T, NPort 6650-32, NPort 6650-32-... lang:en score:28 filesize: 81.2 K page_count: 23 document date: 2021-06-10

[pdf] Release Notes

Firmware for NPort 6000 Series Release Notes MoxaSupports MXconfig v2 6 and MXview v3 1 20 Supports first time login function to set username password daylight saving6600 moxa nport series firmware v1 rom Software History6600 Historymoxa Moxa media PDIM S100000218 6600 History ||| Firmware for NPort 6000 Series Release Notes Version: v1.20 Build: Build 21033015 Release Date: M ... NPort 6610-32, NPort 6610-32-48V, NPort 6650-8, NPort 6650-8T, NPort 6650-8-HV-T, NPort 6650-8-48V, NPort 6650-16, NPort 6650-16-48V, NPort 6650-16-T, NPort 6650-16-HV-T, NPort 6650-32, NPort 6650-32-... lang:en score:28 filesize: 79.77 K page_count: 22 document date: 2021-04-20