Software Name: Firmware for NPort IA5000A Series (NPort IA5450A Series)

Version No.	Build Date No./ Release Date	Supported OS	Apply to Models	New Features/ Enhancements	Bugs Fixed/Changes	Note
v1.6	Build 19032122	N/A	NPort IA5450A Series	**New Features:** 1. Supports HTTPS. 2. Supports MXview auto-topology function. 3. Supports MXconfig. 4. Supports SNMPv2c. 5. Supports dual IP. 6. Supports redundant LAN. **Enhancements:** 1. Accessible IP list can now be used to restrict all device services. 2. Complies with Moxa Security Guidelines on the following: Account Authentication Management, Network Service Management, and Audit and Log Management. 3. CVE-2017-14028: An attacker may be able to exhaust memory resources by sending a large amount of TCP SYN packets. 4. CVE-2017-16715: An attacker may be able to exploit a flaw in the handling of Ethernet frame padding that may allow for information exposure. 5. CVE-2017-16719: An attacker may be able to inject packets that could potentially disrupt the availability of the device. 6. Remove unnecessary information displayed on the Web, Telnet, and Serial consoles during the login process. 7. Remove the TTL limitation (1) on multicast packets.	**Bugs Fixed:** 1. Pair connection mode cannot resolve the domain name. 2. The password may be exposed in the Moxa service. **Changes:** N/A	N/A

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Version No.	Build Date No./ Release Date	Supported OS	Apply to Models	New Features/ Enhancements	Bugs Fixed/Changes	Note
v1.5	Build 18051118	N/A	NPort IA5450A Series	**New Features:** 1. New Flash memory because of the end-of-life of the previous one. **Enhancements:** N/A	**Bugs Fixed:** N/A **Changes:** N/A	N/A
v1.4	Build 18051118	N/A	NPort IA5450A, NPort IA5450AI, NPort IA5450AI-T, NPort IA5450A-T, NPort IA5450A-IEX, NPort IA5450AI-IEX, NPort IA5450AI-T-IEX, NPort IA5450A-T-IEX	**New Features:** 1. Supports new flash component to deal with component end-of-life. 2. Supports new RTC RX8130CE. 3. Supports 12-byte serial numbers. **Enhancements:** N/A	**Bugs Fixed:** N/A **Changes:** N/A	N/A
v1.4	Build 16100514	N/A	NPort IA5450A, NPort IA5450AI, NPort IA5450AI-T, NPort IA5450A-T, NPort IA5450A-IEX, NPort IA5450AI-IEX, NPort IA5450AI-T-IEX, NPort IA5450A-T-IEX	**New Features:** N/A **Enhancements:** 1. Enhanced web login security and supports 5 users logged in simultaneously. 2. Extended HTTP challenge ID length from 32 bits to 256 bits. 3. IP of NPort can be set to addresses ending with 0 or 255. 4. Enabled the default password "moxa". 5. Increased CSRF protection mechanism. 6. Increased XSS protection mechanism. 7. Supports "ARP probe" in RFC5227. NPort would respond to ARP requests with sender IP address 0.0.0.0.	**Bugs Fixed:** 1. NPort cannot send email using Google's SMTP server. 2. In pair connection mode, master does not pull down RTS/DTR signal after the TCP connection is broken. 3. Command port sends lots of "D_ASPP_CMD_ALIVE" packets after running for 50 days. 4. NPort may reboot or hang from several buffer overflow attacks through Telnet, SSH, DSCI, SNMP, HTTP, and HTTPS. **Changes:** N/A	N/A

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Version No.	Build Date No./ Release Date	Supported OS	Apply to Models	New Features/ Enhancements	Bugs Fixed/Changes	Note
v1.3	Build 15041515	N/A	NPort IA5450A, NPort IA5450AI, NPort IA5450AI-T, NPort IA5450A-T, NPort IA5450A-IEX, NPort IA5450AI-IEX, NPort IA5450AI-T-IEX, NPort IA5450A-T-IEX	**New Features:** N/A **Enhancements:** 1. Uses model name instead of "NULL" for SNMP object "sysDescr". 2. Supports connecting to the server by domain name and the server IP will change dynamically. 3. Supports updating the ARP table by gratuitous ARP. 4. Supports time synchronization with an NTPv4 server. 5. Supports RFC2217 NOTIFY-LINESTATE for Transfer Shift Register Empty and Transfer Holding Register Empty.	**Bugs Fixed:** 1. If an SNMP GETNEXT command is issued on an object that does not exist, 'no such name error' is displayed. 2. When DHCP renews IPs, if the IP was originally given by a relay agent, NPort should send a DHCP request to the relay agent, not the DHCP server. 3. In Real COM mode, when the modem status of the NPort's serial port is changed frequently, the NPort will sometimes fail to notify the change to the driver. 4. In reverse telnet mode, the NPort will try to subnegotiate the COM port control options without option negotiation first. 5. In RFC2217 Mode, if the Ethernet data has many FF characters, some data may be lost while passing data to the serial side. 6. Modified parsing data mechanism to fix import file failure. 7. Unable to see the baud rate through a Telnet console on the "View settings" side. 8. System reboots when receiving IGMP packets. 9. The trap settings for port auto warning in the configuration file will be set to email settings after import. 10. The destination and local port settings of TCP client mode would not be set to the correct values after setting the values from the web page. 11. Web Console cannot display web pages when refreshing or switching web pages frequently using IE8. **Changes:** N/A	N/A