Software Name: Firmware for NPort 5000AI-M12 Series (NPort 5250AI-M12)

Version No.	Build Date No./ Release Date	Supported OS	Apply to Models	New Features/ Enhancements	Bugs Fixed/Changes	Note
v1.4	Build 19032122	N/A	NPort 5250AI-M12, NPort 5250AI-M12-CT, NPort 5250AI-M12-T, NPort 5250AI-M12-CT-T	**New Features:** 1. Supports HTTPS. 2. Supports MXview auto-topology function. 3. Supports MXconfig. 4. Supports SNMPv2c. **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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1.3	Build 17030709	N/A	NPort 5250AI-M12-CT, NPort 5250AI-M12-T, NPort 5250AI-M12-CT-T	**New Features:** N/A **Enhancements:** N/A	**Bugs Fixed:** 1. The user's password and SNMP community name may be exposed by a buffer overflow issue. **Changes:** N/A	N/A
v1.2	Build 16100410	N/A	NPort 5250AI-M12-CT, NPort 5250AI-M12-T, NPort 5250AI-M12-CT-T	**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 e-mail 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. 5. Too many connections to the HTTP server at the same time would block new connections for a while. **Changes:** N/A	N/A

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v1.1	Build 15041515	N/A	NPort 5250AI-M12-CT, NPort 5250AI-M12-T, NPort 5250AI-M12-CT-T	**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. In reverse telnet mode, the NPort will try to subnegotiate the COM port control options without option negotiation first. 3. In RFC2217 Mode, if the Ethernet data has many FF characters, some data may be lost while passing the data to the serial side. 4. Unable to see the baud rate through a Telnet console on the "View settings" side. 5. Web Console cannot display web pages when refreshing or switching web pages frequently using IE8. **Changes:** N/A	N/A
v1.0	Build 12072410	N/A	NPort 5250AI-M12-CT, NPort 5250AI-M12-T, NPort 5250AI-M12-CT-T	**New Features:** 1. First release. **Enhancements:** N/A	**Bugs Fixed:** N/A **Changes:** N/A	N/A