

Software Name: Driver for MiiNePort W1 Series (Linux kernel 2.4.x)

Version No.	Build Date No./ Release Date	Supported OS	Apply to Models	New Features/ Enhancements	Bugs Fixed/Changes	Note
v1.19	Build 17110917	Linux_2.6.x, Linux_2.4.x	General Device Servers, Combo Device Servers, Wireless Device Servers, Industrial Device Servers, Terminal Servers, Serial Embedded Modules	<p>New Features:</p> <ol style="list-style-type: none"> Added driver background polling feature to eliminate the waiting time when an NPort is not present in Slackware 14.0. <p>Enhancements:</p> <ol style="list-style-type: none"> When using a domain name as the mapping address for NPort, it will be translated every time when Real TTY is opening the port. Compiling errors when using secured Real COM mode. 	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> A call trace may happen with the error message "not syncing: Fatal exception" in kernel 2.6 for specific platforms. Compiling error if the kernel version contains the stream "2.4." Real TTY driver installation and uninstallation fails due to insufficient permissions for the /tmp folder. <p>Changes:</p> <ol style="list-style-type: none"> Log file increasing without limit causes a file system crash. No longer supports 3.x and above. 	<ol style="list-style-type: none"> Support NPort W2004, NPort W2150, NPort W2250, NPort W2150 Plus, NPort W2250 Plus, WE-2100T Support DE-211, DE-301, DE-302, DE-303, DE-304, DE-308, DE-311, DE-311M, DE-331, DE-332, DE-334 Support NE4100T-CMD, NE4110A-CMD, NE4110S-CMD, NE4120A-CMD, NE4120S-CMD Support MiiNePort E1-SDK, MiiNePort E1-H-SDK, MiiNePort E2-SDK, MiiNePort E2-

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v1.18	Build 12020919	Linux_2.4.x, Linux_2.6.x, Linux_3.x	General Device Servers, Combo Device Servers, Wireless Device Servers, Industrial Device Servers, Terminal Servers, Serial Embedded Modules	New Features: 1. Supports Linux kernels up to 3.1.0-72. Modified Makefile for compatibility under Ubuntu 11.10. Enhancements: N/A	Bugs Fixed: 1. Driver could not support maximum connection in Redundant COM Mode. 2. Compiler error when security option is enabled. Changes: N/A	1. Support NPort W2004, NPort W2150, NPort W2250, NPort W2150 Plus, NPort W2250 Plus, WE-2100T 2. Support DE-211, DE-301, DE-302, DE-303, DE-304, DE-308, DE-311, DE-311M, DE-331, DE-332, DE-334 3. Support NE4100T-CMD, NE4110A-CMD, NE4110S-CMD, NE4120A-CMD, NE4120S-CMD 4. Support MiiNePort E1-SDK, MiiNePort E1-H-SDK, MiiNePort E2-SDK, MiiNePort E2-

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v1.17	Build 11011413	Linux_2.4.x, Linux_2.6.x, Linux_3.x	General Device Servers, Combo Device Servers, Wireless Device Servers, Industrial Device Servers, Terminal Servers, Serial Embedded Modules	New Features: 1. Supports Solaris 10 on Sparc Machine, IBM AIX 5.3. 2. Supports Alpha Server. Enhancements: N/A	Bugs Fixed: 1. Fixed driver connection problem in QNX 4. 2. When NPort restarts, the driver reset connection fails in big-endian machines. 3. moxattd closed when using terminal to open port. 4. -t parameter would not work on 64-bit machines. 5. NPort polling mechanism bug in QNX 6. 6. "Invalid Argument" message when using stty command in Solaris. 7. Driver buffer size changed to 8192 bytes for AIX. 8. moxattd disappeared on big-endian machines. 9. Zombie processes were being generated in QNX 4 when the device server was disconnected. Changes: N/A	1. Support NPort W2004, NPort W2150, NPort W2250, NPort W2150 Plus, NPort W2250 Plus, WE-2100T 2. Support DE-211, DE-301, DE-302, DE-303, DE-304, DE-308, DE-311, DE-311M, DE-331, DE-332, DE-334 3. Support NE4100T-CMD, NE4110A-CMD, NE4110S-CMD, NE4120A-CMD, NE4120S-CMD 4. Support MiiNePort E1-SDK, MiiNePort E1-H-SDK, MiiNePort E2-SDK, MiiNePort E2-

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v1.16	Build 090305	Linux_2.4.x, Linux_2.6.x	General Device Servers, Combo Device Servers, Wireless Device Servers, Industrial Device Servers, Terminal Servers, Serial Embedded Modules	<p>New Features:</p> <ol style="list-style-type: none"> Added mxsetsec command to enable/disable security function on TTY ports. Supports domain name. Supports Linux kernel up to 2.6.27 (Ubuntu 8.10). Supports linear baudrates. <p>Enhancements:</p> <p>N/A</p>	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> If SELinux does not support MLS, creating /dev/ttyr* node would fail. If opening a port failed, module could not be removed. Kernel 2.6.28 may have a system crash. Compiling would fail for kernel v2.6.21. <p>Changes:</p> <p>N/A</p>	<ol style="list-style-type: none"> Perform these 3 steps to set a customized baudrate: (e.g., /dev/ttyr00, baudrate 500K) (1) /bin/setserial /dev/ttyr00 spd_cust, (2) /bin/setserial /dev/ttyr00 divisor 1, (3) /bin/setserial /dev/ttyr00 baud_base 500000 To recover to normal mode, perform this step: (1) /bin/setserial /dev/ttyr00 divisor 0 Support NPort W2004, NPort W2150, NPort W2250, NPort W2150 Plus, NPort W2250 Plus, WE-2100T Support DE-211, DE-301, DE-302, DE-303, DE-304, DE-308, DE-311, DE-311M, DE-331, DE-332, DE-334 Support NE4100T-CMD, NE4110A-CMD, NE4110S-CMD, NE4120A-CMD, NE4120S-CMD

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						MiiNePort E1-SDK, MiiNePort E1-H-SDK, MiiNePort E2-SDK, MiiNePort E2-H-SDK
v1.15	Build 080422	Linux_2.4.x, Linux_2.6.x	General Device Servers, Combo Device Servers, Wireless Device Servers, Industrial Device Servers, Terminal Servers, Serial Embedded Modules	<p>New Features:</p> <p>1. Supports IPv6 (kernel 2.6.x).</p> <p>Enhancements:</p> <p>N/A</p>	<p>Bugs Fixed:</p> <p>N/A</p> <p>Changes:</p> <p>N/A</p>	<p>1. Support NPort W2004, NPort W2150, NPort W2250, NPort W2150 Plus, NPort W2250 Plus, WE-2100T</p> <p>2. Support DE-211, DE-301, DE-302, DE-303, DE-304, DE-308, DE-311, DE-311M, DE-331, DE-332, DE-334</p> <p>3. Support NE4100T-CMD, NE4110A-CMD, NE4110S-CMD, NE4120A-CMD, NE4120S-CMD</p> <p>4. Support MiiNePort E1-SDK, MiiNePort E1-H-SDK, MiiNePort E2-SDK, MiiNePort E2-</p>

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v1.14	Build 070626	Linux_2.4.x, Linux_2.6.x	General Device Servers, Combo Device Servers, Wireless Device Servers, Industrial Device Servers, Terminal Servers, Serial Embedded Modules	<p>New Features:</p> <p>1. Supports 32 port models.</p> <p>Enhancements:</p> <p>N/A</p>	<p>Bugs Fixed:</p> <p>1. Local buffer would not clear when the port was closed.</p> <p>Changes:</p> <p>N/A</p>	<p>1. Support NPort W2004, NPort W2150, NPort W2250, NPort W2150 Plus, NPort W2250 Plus, WE-2100T</p> <p>2. Support DE-211, DE-301, DE-302, DE-303, DE-304, DE-308, DE-311, DE-311M, DE-331, DE-332, DE-334</p> <p>3. Support NE4100T-CMD, NE4110A-CMD, NE4110S-CMD, NE4120A-CMD, NE4120S-CMD</p> <p>4. Support MiiNePort E1-SDK, MiiNePort E1-H-SDK, MiiNePort E2-SDK, MiiNePort E2-</p>

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v1.13	Build 061117	Linux_2.4.x, Linux_2.6.x	General Device Servers, Combo Device Servers, Wireless Device Servers, Industrial Device Servers, Terminal Servers, Serial Embedded Modules	New Features: 1. Supports Secure RealCOM operating mode for NPort 6000 Series. Enhancements: N/A	Bugs Fixed: N/A Changes: N/A	1. Support NPort W2004, NPort W2150, NPort W2250, NPort W2150 Plus, NPort W2250 Plus, WE-2100T 2. Support DE-211, DE-301, DE-302, DE-303, DE-304, DE-308, DE-311, DE-311M, DE-331, DE-332, DE-334 3. Support NE4100T-CMD, NE4110A-CMD, NE4110S-CMD, NE4120A-CMD, NE4120S-CMD 4. Support MiiNePort E1-SDK, MiiNePort E1-H-SDK, MiiNePort E2-SDK, MiiNePort E2-

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Version No.	Build Date No./ Release Date	Supported OS	Apply to Models	New Features/ Enhancements	Bugs Fixed/Changes	Note
v1.12	Build 060223	Linux_2.4.x, Linux_2.6.x	General Device Servers, Combo Device Servers, Wireless Device Servers, Industrial Device Servers, Terminal Servers, Serial Embedded Modules	<p>New Features:</p> <p>1. Added termio CMSPAR option. The driver now supports MARK and SPACE parity checks.</p> <p>Enhancements:</p> <p>N/A</p>	<p>Bugs Fixed:</p> <p>1. Replace verify_ok() with Using access_ok() because it is obsoleted in kernel 2.6.x.</p> <p>Changes:</p> <p>N/A</p>	<p>1. Support NPort W2004, NPort W2150, NPort W2250, NPort W2150 Plus, NPort W2250 Plus, WE-2100T</p> <p>2. Support DE-211, DE-301, DE-302, DE-303, DE-304, DE-308, DE-311, DE-311M, DE-331, DE-332, DE-334</p> <p>3. Support NE4100T-CMD, NE4110A-CMD, NE4110S-CMD, NE4120A-CMD, NE4120S-CMD</p> <p>4. Support MiiNePort E1-SDK, MiiNePort E1-H-SDK, MiiNePort E2-SDK, MiiNePort E2-</p>

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v1.11	Build 050725	Linux_2.4.x, Linux_2.6.x	General Device Servers, Combo Device Servers, Wireless Device Servers, Industrial Device Servers, Terminal Servers, Serial Embedded Modules	<p>New Features:</p> <p>1. Supports NPort IA models.</p> <p>Enhancements:</p> <p>N/A</p>	<p>Bugs Fixed:</p> <p>N/A</p> <p>Changes:</p> <p>N/A</p>	<p>1. Support NPort W2004, NPort W2150, NPort W2250, NPort W2150 Plus, NPort W2250 Plus, WE-2100T</p> <p>2. Support DE-211, DE-301, DE-302, DE-303, DE-304, DE-308, DE-311, DE-311M, DE-331, DE-332, DE-334</p> <p>3. Support NE4100T-CMD, NE4110A-CMD, NE4110S-CMD, NE4120A-CMD, NE4120S-CMD</p> <p>4. Support MiiNePort E1-SDK, MiiNePort E1-H-SDK, MiiNePort E2-SDK, MiiNePort E2-</p>

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v1.10	Build 050422	Linux_2.4.x, Linux_2.6.x	General Device Servers, Combo Device Servers, Wireless Device Servers, Industrial Device Servers, Terminal Servers, Serial Embedded Modules	<p>New Features:</p> <ol style="list-style-type: none"> Further verified supported Moxa products. Supports Linux kernel version 2.4.x to 2.6.9. <p>Enhancements:</p> <p>N/A</p>	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> Warning message occurs with PPP dialout cases. With kernel 2.4, trying to ping a packet larger than 4 KB via PPP dialout caused Linux to hang. <p>Changes:</p> <p>N/A</p>	<ol style="list-style-type: none"> Support NPort W2004, NPort W2150, NPort W2250, NPort W2150 Plus, NPort W2250 Plus, WE-2100T Support DE-211, DE-301, DE-302, DE-303, DE-304, DE-308, DE-311, DE-311M, DE-331, DE-332, DE-334 Support NE4100T-CMD, NE4110A-CMD, NE4110S-CMD, NE4120A-CMD, NE4120S-CMD Support MiiNePort E1-SDK, MiiNePort E1-H-SDK, MiiNePort E2-SDK, MiiNePort E2-

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v1.9	Build 050302	Linux_2.4.x, Linux_2.6.x	General Device Servers, Combo Device Servers, Wireless Device Servers, Industrial Device Servers, Terminal Servers, Serial Embedded Modules	<p>New Features: N/A</p> <p>Enhancements: N/A</p>	<p>Bugs Fixed: 1. Server index of ttyinfo table was not correct; incorrect connection down information.</p> <p>Changes: N/A</p>	<p>1. Support NPort W2004, NPort W2150, NPort W2250, NPort W2150 Plus, NPort W2250 Plus, WE-2100T</p> <p>2. Support DE-211, DE-301, DE-302, DE-303, DE-304, DE-308, DE-311, DE-311M, DE-331, DE-332, DE-334</p> <p>3. Support NE4100T-CMD, NE4110A-CMD, NE4110S-CMD, NE4120A-CMD, NE4120S-CMD</p> <p>4. Support MiiNePort E1-SDK, MiiNePort E1-H-SDK, MiiNePort E2-SDK, MiiNePort E2-</p>

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v1.8	Build 050222	Linux_2.4.x, Linux_2.6.x	General Device Servers, Combo Device Servers, Wireless Device Servers, Industrial Device Servers, Terminal Servers, Serial Embedded Modules	<p>New Features:</p> <p>1. Supports Slackware (kernel version 2.4.x).</p> <p>Enhancements:</p> <p>N/A</p>	<p>Bugs Fixed:</p> <p>1. Open TTY port function may be slow or may fail. 2. Warning message when adding/removing nodes in Fedora Core 3. 3. In some Linux systems that run kernel 2.6.x, the /dev/ttyr?? nodes may be deleted after system reboot .</p> <p>Changes:</p> <p>N/A</p>	<p>1. Support NPort W2004, NPort W2150, NPort W2250, NPort W2150 Plus, NPort W2250 Plus, WE-2100T</p> <p>2. Support DE-211, DE-301, DE-302, DE-303, DE-304, DE-308, DE-311, DE-311M, DE-331, DE-332, DE-334</p> <p>3. Support NE4100T-CMD, NE4110A-CMD, NE4110S-CMD, NE4120A-CMD, NE4120S-CMD</p> <p>4. Support MiiNePort E1-SDK, MiiNePort E1-H-SDK, MiiNePort E2-SDK, MiiNePort E2-</p>

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v1.7	Build 041231	Linux_2.4.x, Linux_2.6.x	General Device Servers, Combo Device Servers, Wireless Device Servers, Industrial Device Servers, Terminal Servers, Serial Embedded Modules	<p>New Features:</p> <ol style="list-style-type: none"> 1. Supports ASPP baud rate error detection. 2. Added NPort 5110 to README.TXT and VERSION.TXT. 3. Added alive check mechanism for MOXA products that support DSCI commands (get net state). <p>Enhancements:</p> <p>N/A</p>	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> 1. ap_id field was 4 bytes long. Use ntohs() and htons() to convert between host and network format. <p>Changes:</p> <ol style="list-style-type: none"> 1. Modified DSCI netstat command: using little endian for max_socket field. 2. Modified alive check to support multiple connections. 	<ol style="list-style-type: none"> 1. Support NPort W2004, NPort W2150, NPort W2250, NPort W2150 Plus, NPort W2250 Plus, WE-2100T 2. Support DE-211, DE-301, DE-302, DE-303, DE-304, DE-308, DE-311, DE-311M, DE-331, DE-332, DE-334 3. Support NE4100T-CMD, NE4110A-CMD, NE4110S-CMD, NE4120A-CMD, NE4120S-CMD 4. Support MiiNePort E1-SDK, MiiNePort E1-H-SDK, MiiNePort E2-SDK, MiiNePort E2-

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v1.6	N/A	Linux_2.4.x, Linux_2.6.x	General Device Servers, Combo Device Servers, Wireless Device Servers, Industrial Device Servers, Terminal Servers, Serial Embedded Modules	<p>New Features:</p> <p>1. Supports Linux kernel 2.6.</p> <p>Enhancements:</p> <p>N/A</p>	<p>Bugs Fixed:</p> <p>1. Callout device (cur*) was obsolete under Linux 2.6.</p> <p>Changes:</p> <p>N/A</p>	<p>1. Support NPort W2004, NPort W2150, NPort W2250, NPort W2150 Plus, NPort W2250 Plus, WE-2100T</p> <p>2. Support DE-211, DE-301, DE-302, DE-303, DE-304, DE-308, DE-311, DE-311M, DE-331, DE-332, DE-334</p> <p>3. Support NE4100T-CMD, NE4110A-CMD, NE4110S-CMD, NE4120A-CMD, NE4120S-CMD</p> <p>4. Support MiiNePort E1-SDK, MiiNePort E1-H-SDK, MiiNePort E2-SDK, MiiNePort E2-</p>

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v1.5	N/A	Linux_2.4.x	General Device Servers, Combo Device Servers, Wireless Device Servers, Industrial Device Servers, Terminal Servers, Serial Embedded Modules	New Features: 1. Supports NE-4100T, NE-4110S, NE-4120S, NE-4110A, NE-4120A. Enhancements: N/A	Bugs Fixed: N/A Changes: N/A	1. Support NPort W2004, NPort W2150, NPort W2250, NPort W2150 Plus, NPort W2250 Plus, WE-2100T 2. Support DE-211, DE-301, DE-302, DE-303, DE-304, DE-308, DE-311, DE-311M, DE-331, DE-332, DE-334 3. Support NE4100T-CMD, NE4110A-CMD, NE4110S-CMD, NE4120A-CMD, NE4120S-CMD 4. Support MiiNePort E1-SDK, MiiNePort E1-H-SDK, MiiNePort E2-SDK, MiiNePort E2-
v1.4	N/A	Linux_2.4.x	General Device Servers, Combo Device Servers, Wireless Device Servers, Industrial Device Servers, Terminal Servers, Serial Embedded Modules	New Features: 1. Supports CN2510-8, CN2510-16, CN2610-8, CN2610-16. Enhancements: N/A	Bugs Fixed: 1. Compiling error: request for member `counter' in something not a structure or union. Except for Fedora, this would occur on any distribution with kernel version >= 2.4.22. (Bug#33) 2. Compiling error on Red Hat 7.2: The MODULE_LICENSE is not defined. (Bug#5) Changes: N/A	1. Support NPort W2004, NPort W2150, NPort W2250, NPort W2150 Plus, NPort W2250 Plus, WE-2100T 2. Support DE-211, DE-301, DE-302, DE-303, DE-304, DE-308, DE-311, DE-311M, DE-331, DE-332, DE-