

Software Name: Real TTY Driver for Linux kernel 3.x, 4.x

Version No.	Build Date No./ Release Date	Supported OS	Apply to Models	New Features/Enhancements	Bugs Fixed/Changes	Note
1.19	Build 17110917	Linux (kernel 3.x.x) (Support IPV4 and IPV6) Linux (kernel 4.x.x) (Support IPV4 and IPV6)	<p>CN2500 Series: CN2510-8, CN2510-16, CN2510-8-48V, CN2510-16-48V</p> <p>CN2600 Series: CN2610-8, CN2610-16, CN2650-8, CN2650-16, CN2650I-8, CN2650I-16, CN2610-8-2AC, CN2610-16-2AC, CN2650-8-2AC, CN2650-16-2AC, CN2650I-8-2AC, CN2650I-16-2AC, CN2650I-8-HV, CN2650I-16-HV</p> <p>NPort: DE-211, DE-311, DE-311M, DE-301, DE-302, DE-304, DE-334</p> <p>NPort 5100 Series: 5110, 5130, 5150, 5110A, 5130A, 5150A, P5150A</p> <p>NPort 5200 Series: 5210, 5230, 5232, 5232I, 5210A, 5230A, 5250A</p> <p>NPort 5400 Series: 5410, 5410 V3, 5430, 5430 V3, 5430I, 5430I V3, 5450, 5450I</p> <p>NPort 5600 Rackmount Serie: 5610-8, 5610-16, 5610-8-48V, 5610-16-48V, 5630-8, 5630-16, 5650-8, 5650-16, 5650-8-M-SC, 5650-16-M-SC, 5650-8-S-SC, 5650-16-S-SC</p> <p>NPort 5600 Desktop Series: 5610-8-DT, 5610-8-DT-J, 5650-8-DT, 5650I-8-DT, 5650-8-DT-J</p> <p>NPort 5600 Desktop Lite Series: 5610-8-DTL, 5650-8-DTL, 5650I-8-DTL</p> <p>NPort IA Series: IA-5150, IA-5150I, IA-5150-S-SC, IA-5150I-S-SC, IA-5150-M-SC, IA-5150I-M-SC, IA-5250, IA5150A, IA5150AI, IA5250A, IA5250AI, IA5450A, IA5450AI</p> <p>NPort M12 Series: NPort 5150AI-M12, 5250AI-M12, 5450AI-M12</p> <p>NPort 6000 Series: 6150, 6250, 6250-M-SC, 6250-S-SC, 6450, 6650-8, 6650-16, 6610-8, 6610-16, 6610-32, 6650-32</p> <p>NPort Wireless Series: W2004, W2150, W2250, W2150 Plus, W2250 Plus, W2150A, W2250A</p> <p>NPort Zigbee Series: Z3150</p> <p>NE Series: 4100T, 4100T-CMD, 4110A, 4110A-CMD, 4110S, 4110S-CMD, 4120A, 4120A-CMD, 4120S, 4120S-CMD</p> <p>WE Series: 2100T</p> <p>MiiNePort Series: E1, E1-H, E2, E2-H, E3, E3-H, E1-H SDK, E2 SDK, E2-H SDK, W1</p> <p>NPort S8000 Series: S8455I-MM-SC, S8455I-SS-SC, S8458-4S-SC-T</p> <p>MGate 5000 Series: 5101-PBM-MN, 5102-PBM-PN, 5105-MB-EIP, W5108, W5208, 5109, 5118</p> <p>MGate MB300 Series: MB3180, MB3280, MB3480, MB3170, MB3170I, MB3270, MB3270I, MB3170-M-SC, MB3170-M-ST, MB3170-S-SC, MB3170I-M-SC, MB3170I-S-SC</p> <p>MGate EIP300 Series: EIP3170, EIP3170I, EIP3270, EIP3270</p> <p>Media Converter Series: CSM-MN01, CSM-400-1213, CSM-400-1214, CSM-400-1215, CSM-400-1217, CSM-400-1218, CSM-400-1219</p>	<p>New Features:</p> <ol style="list-style-type: none"> 1. Support Raspbian Jessie or later for Raspberry Pi 2/3. 2. Add driver background polling feature to eliminate the waiting time when NPort is not existed in Slackware 14.0 <p>Enhancements:</p> <ol style="list-style-type: none"> 1. Support kernel version to kernel 4.13. 2. Compiling errors with error message "error: expected expression before '{' token" in specified platforms. 3. When using domain name as mapping address of NPort, it will be translated every time while Real TTY opening the port. 4. Compiling errors when using secured Real COM mode. 5. Shutdown hanging might happen in specified OS Red Hat Enterprise Linux 7.2 (3.10.0-123.el7). 	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> 1. Real TTY can't startup TTY ports with domain name mapped after system is rebooted. 2. Kernel panic with error message "unable to handle kernel paging request" on specified platforms. 3. Driver isn't loaded properly after system reboot on Ubuntu 16.04. 4. Driver may cause a kernel crash with error messages "soft lockup" with specified network interface card. 5. The command stty may output error if there is no loopback connector on NPort in Redundant mode. 6. Network reconnection problems when using redundant mode. 7. The Real TTY service may not be started automatically in Debian 6.0 or later versions. 8. There may be communication loss when using IPV6. 9. It can't read data due to abnormal flow control in Linux kernel 3.8 and later. 10. When security mode is enabled, driver may crash if it connects to offline NPort. 11. Port mapping incorrectly after reboot in Kernel 3.2.48. 12. When NPort is offline, the current serial parameters are not saved for reconnection. 13. While executing mxsetsec, the configuration of driver will be cleared. 14. When opening node /dev/ttyr10, the port 16 should be opened, but the port 10 is opened instead. 15. The driver reference count becomes negative after port open fail. <p>Changes:</p> <ol style="list-style-type: none"> 1. Not support kernel 2.x. 2. Log file increased unlimitedly causes file system crash 	N/A

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1.18	Build 12020919	Linux kernel 2.4.x (support IPv4 only) Linux kernel 2.6.x (support IPv4 and IPv6) Linux kernel 3.x.x (support IPv4 and IPv6)	CN2500 Series: CN2510-8, CN2510-16, CN2510-8-48V, CN2510-16-48V CN2600 Series: CN2610-8, CN2610-16, CN2650-8, CN2650-16, CN2650I-8, CN2650I-16, CN2610-8-2AC, CN2610-16-2AC, CN2650-8-2AC, CN2650-16-2AC, CN2650I-8-2AC, CN2650I-16-2AC, CN2650I-8-HV, CN2650I-16-HV NPort: DE-211, DE-311, DE-311M, DE-301, DE-302, DE-304, DE-334 NPort 5100 Series: 5110, 5130, 5150, 5110A, 5130A, 5150A, P5150A NPort 5200 Series: 5210, 5230, 5232, 5232I, 5210A, 5230A, 5250A NPort 5400 Series: 5410, 5410 V3, 5430, 5430 V3, 5430I V3, 5450, 5450I NPort 5600 Rackmount Serie: 5610-8, 5610-16, 5610-8-48V, 5610-16-48V, 5630-8, 5630-16, 5650-8, 5650-16, 5650-8-M-SC, 5650-16-M-SC, 5650-8-S-SC, 5650-16-S-SC NPort 5600 Desktop Series: 5610-8-DT, 5610-8-DT-J, 5650-8-DT, 5650I-8-DT, 5650-8-DT-J NPort 5600 Desktop Lite Series: 5610-8-DTL, 5650-8-DTL, 5650I-8-DTL NPort IA Series: IA-5150, IA-5150I, IA-5150-S-SC, IA-5150I-S-SC, IA-5150-M-SC, IA-5150I-M-SC, IA-5250, IA5150A, IA5150AI, IA5250A, IA5250AI, IA5450A, IA5450AI NPort M12 Series: NPort 5150AI-M12, 5250AI-M12, 5450AI-M12 NPort 6000 Series: 6150, 6250, 6250-M-SC, 6250-S-SC, 6450, 6650-8, 6650-16, 6610-8, 6610-16, 6610-32, 6650-32	New Features: 1. Support Linux Kernel up to 3.1.0-72. Modify Makefile for compatibility under Ubuntu 11.10 Enhancements: 1. N/A	Bugs Fixed: 1. Driver can't support maximum connection in Redundant COM Mode. 2. Compiler error when security option is enabled. Changes: 1. N/A	N/A

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1.17	Build 11011413	Linux kernel 2.4.x (support IPv4 only) Linux kernel 2.6.x (support IPv4 and IPv6) Linux kernel 3.x.x (support IPv4 and IPv6)	CN2500 Series: CN2510-8, CN2510-16, CN2510-8-48V, CN2510-16-48V CN2600 Series: CN2610-8, CN2610-16, CN2650-8, CN2650-16, CN2650I-8, CN2650I-16, CN2610-8-2AC, CN2610-16-2AC, CN2650-8-2AC, CN2650-16-2AC, CN2650I-8-2AC, CN2650I-16-2AC, CN2650I-8-HV, CN2650I-16-HV NPort: DE-211, DE-311, DE-311M, DE-301, DE-302, DE-304, DE-334 NPort 5100 Series: 5110, 5130, 5150, 5110A, 5130A, 5150A, P5150A NPort 5200 Series: 5210, 5230, 5232, 5232I, 5210A, 5230A, 5250A NPort 5400 Series: 5410, 5410 V3, 5430, 5430 V3, 5430I, 5430I V3, 5450, 5450I NPort 5600 Rackmount Series: 5610-8, 5610-16, 5610-8-48V, 5610-16-48V, 5630-8, 5630-16, 5650-8, 5650-16, 5650-8-M-SC, 5650-16-M-SC, 5650-8-S-SC, 5650-16-S-SC NPort 5600 Desktop Series: 5610-8-DT, 5610-8-DT-J, 5650-8-DT, 5650I-8-DT, 5650-8-DT-J NPort 5600 Desktop Lite Series: 5610-8-DTL, 5650-8-DTL, 5650I-8-DTL NPort IA Series: IA-5150, IA-5150I, IA-5150-S-SC, IA-5150I-S-SC, IA-5150-M-SC, IA-5150I-M-SC, IA-5250, IA5150A, IA5150AI, IA5250A, IA5250AI, IA5450A, IA5450AI NPort M12 Series: NPort 5150AI-M12, 5250AI-M12, 5450AI-M12 NPort 6000 Series: 6150, 6250, 6250-M-SC, 6250-S-SC, 6450, 6650-8, 6650-16, 6610-8, 6610-16, 6610-32, 6650-32	New Features: 1. Support Solaris 10 in Sparc Machine, IBM AIX 5.3. 2. Support Alpha Server Enhancements: 1. N/A	Bugs Fixed: 1. Fixed driver connection problem in QNX4. 2. When NPort restart, the driver reset connection fail in big-endian machine. 3. Fixed moxattyd closed when user uses terminal to open port. 4. Fixed -t parameter can not work in 64-bits machine. 5. Fixed NPort polling mechanism bug in QNX6. 6. Fixed "Invalid Argument" message for using stty command in Solaris. 7. The driver buffer size is changed to 8192 bytes for AIX. 8. moxattyd disappeared in big-endian machine. 9. Zombie processes being generated on QNX4 when device server is disconnected. Changes: 1. N/A	N/A