Firmware for IA240 Series (Linux) Release Notes

Version: v1.10	Build: Build_19010911
Release Date: Jan 09, 2019	

Applicable Products

IA240 Series

Supported Operating Systems

Linux Kernel 2.6.x

New Features

N/A

Enhancements

• Includes cfi_cmdset_0001.c MTD device driver in the kernel to support both the Micron and MXIC NOR flash memories.

Bugs Fixed

• The gethostbyname_r() command returns an error.

Changes

N/A

Notes

N/A

Version: v1.9	Build: Build 18033016
Release Date: Mar 30, 2018	

Applicable Products

IA240-LX, UC-7112-LX, IA240-T-LX, UC-7112-LX Plus

Supported Operating Systems

Linux 2.6.x

New Features

N/A

Enhancements

• Web server supports both HTTP and HTTPS services.
• The SSH host key is generated at first system bootup.
• Supports the MXIC NOR flash.

Bugs Fixed

• The iptables external module link path issue.
• Busybox v1.13.3 issues: stty support for 921600, empty option issue (modprobe fixes empty option).
• Login timeout leads to system reset.
• Timezone configuration change is not applied.

Changes

N/A

Notes

N/A

Version: v1.8	Build: Build 17060512
Release Date: Jul 07, 2017	

Applicable Products

IA240-T-LX, IA240-LX, UC-7112-LX, UC-7112-LX Plus

Supported Operating Systems

Linux 2.6.x

New Features

N/A

Enhancements

N/A

Bugs Fixed

• The vfork issue in the cron daemon.
• Links to non-existent libraries /lib/libstdc++.so and /lib/libstdc++.so.5.
• The sshd configuration is missing after firmware is upgraded from v1.4 to v1.5.

Changes

N/A

Notes

N/A

Version: v1.7	Build: Build 16111812
Release Date: N/A	

Applicable Products

IA240-LX, IA240-T-LX, UC-7112-LX, UC-7112-LX Plus

Supported Operating Systems

Linux 2.6.x

New Features

• The upgradehfm v1.3 tool supports the '-r' option for resetting to the default settings after a firmware upgrade.

Enhancements

• Upgraded SSH to v6.7.
• Notifies the default user "root" to change the default password after the first login.

Bugs Fixed

• CVE-2015-7547: GNU glibc contains a buffer overflow vulnerability in the DNS resolver.
• CVE-2016-0800, CVE-2016-0797, CVE-2015-3197; OpenSSL,DROWN issue.
• CVE-2014-6271: Bash shellshock issue.
• CVE-2016-2108: OpenSSL ASN1 parser issue.
• SNMP ifOperStatus value issue.

Changes

N/A

Notes

N/A

Version: v1.6	Build: Build 09061019
Release Date: N/A	

Applicable Products

IA240-LX, IA240-T-LX, UC-7112-LX, UC-7112-LX Plus

Supported Operating Systems

Linux 2.6.x

New Features

• Supports SDHC card.

Enhancements

• Upgraded busybox to v1.13.3; includes patches for tar and , tail, syslogd and klogd support, and stty B 921600.

Bugs Fixed

• Software watchdog doesn't support interrupt mode.

Changes

• Includes the links and directories: ln –sf /proc/mounts ./etc/mtab, mkdir /etc/network/if-up.d, if-pre-up.d, if-down.d, and if-post-down.d
• Upfirm and upgradehfm use the same function.
• Changes rmdir to rm in usbstpnp.
• Limits write permission in /etc.
• Uses modprobe instead of insmod.

Notes

N/A

Version: v1.5	Build: Build 07100317
Release Date: N/A	

Applicable Products

IA240-LX, IA240-T-LX, UC-7112-LX, UC-7112-LX Plus

Supported Operating Systems

Linux 2.6.x

New Features

• Includes additional kernel modules.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A

Version: v1.4	Build: Build 07082419
Release Date: N/A	

Applicable Products

IA240-LX, IA240-T-LX

Supported Operating Systems

Linux 2.6.x

New Features

• Includes the standard C++ shared library.

Enhancements

• Enables the Kernal IP Multicast function.
• Enables the Ethernet driver to receive all muticast packets.

Bugs Fixed

• The MMU issue.
• An issue in the arch irq routine (cpe_init.c).
• An issue in the USB driver (host/ehci-hub.c)
• Fixed an issue in a Perl subroutine.

Changes

• Removed the unused kernel features: CONFIG_SWAP, CONFIG_HOTPLUG, and CONFIG_ARM_THUMB.
• Updated the bootloader.

Notes

N/A

Version: v1.3	Build: 18033016
Release Date: N/A	

Applicable Products

DA-662A-8-LX, DA-662A-16-LX, DA-662A-16-DP-LX, DA-662A-I-8-LX, DA-662A-I-16-LX, IA240-LX, IA240-T-LX, UC-7112-LX Plus

Supported Operating Systems

Linux Kernel 2.6.x

New Features

• Supports OpenVPN and bonding.

Enhancements

• Generates the SSH host key during the first time boot up.
• Supports MXIC NOR flash.

Bugs Fixed

• Adds back these directories that were not included in v1.2: /home/.__usr/local/bin, /home/.__usr/local/sbin, /home/.__usr/local/lib, and /home/.__usr/local/libexec.
• Adds back the link file not included in v1.2: ln -sf /dev/watchdog /dev/swtd.
• Fixes the DST.DTR issue in the console.

Changes

• Watchdog resets if process coredump (got signal - SIGQUIT, SIGILL, SIGABRT, SIGFPE, SIGSEGV) occurs.

Notes

N/A

Version: v1.2	Build: 16111518
Release Date: N/A	

Applicable Products

DA-662A-8-LX, DA-662A-16-LX, DA-662A-16-DP-LX, DA-662A-I-8-LX, DA-662A-I-16-LX, IA240-LX, IA240-T-LX, UC-7112-LX Plus

Supported Operating Systems

Linux Kernel 2.6.x

New Features

• The upgradehfm v1.3 tool supports the '-r' option for resetting to the default settings after a firmware upgrade.

Enhancements

• The system notifies the default user "root" to change the password after the first login.

Bugs Fixed

• CVE-2015-0235 glibc GHOST library.
• CVE-2015-7547: GNU glibc contains a buffer overflow vulnerability in the DNS resolver.
• CVE-2016-0800, CVE-2016-0797, CVE-2015-3197, OpenSSL: DROWN issue.
• CVE-2014-6271: bash shellshock issue.
• CVE-2016-2108: OpenSSL ASN1 parser issue.
• SNMP ifOperStatus value issue.
• MAC carry fail when MAC is 0090E8FFFFFF; upgraded bootloader to v1.3 to fix the issue.
• The moxaarm11_gmac.c MAC carry fail issue.

Changes

• Upgraded SSH to v6.7.
• The tftpd service has been removed from the default start list.
• Upgraded busybox to v1.2.1.
• Removed these commands: /bin/tinylogin, /bin/portmap, /bin/pmap_set, /bin/pmap_dump, /bin/e2fsck, /bin/debugfs, and /bin/badblocks.

Notes

N/A

Version: v1.1	Build: 15122313
Release Date: N/A	

Applicable Products

DA-662A-8-LX, DA-662A-16-LX, DA-662A-16-DP-LX, DA-662A-I-8-LX, DA-662A-I-16-LX, IA240-LX, IA240-T-LX, UC-7112-LX Plus

Supported Operating Systems

Linux Kernel 2.6.x

New Features

N/A

Enhancements

N/A

Bugs Fixed

• Fixed keypad driver to remove an issue with the "5" key.

Changes

N/A

Notes

N/A

Version: v1.0	Build: 15072315
Release Date: N/A	

Applicable Products

DA-662A-8-LX, DA-662A-16-LX, DA-662A-16-DP-LX, DA-662A-I-8-LX, DA-662A-I-16-LX, IA240-LX, IA240-T-LX, UC-7112-LX Plus

Supported Operating Systems

Linux Kernel 2.6.x

New Features

• First release.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A