



## Firmware for IA240 Series Release Notes

<b>Version: v1.9</b>	<b>Build: Build 18033016</b>
<b>Release Date: Mar 30, 2018</b>	

### 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



<b>Version: v1.8</b>	<b>Build: Build 17060512</b>
<b>Release Date: Jul 07, 2017</b>	

### **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



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

### **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



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

### **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/mstab, 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



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

**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



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

### **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



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

### **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



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

### **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 upgradefm 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





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

**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



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

**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