

Current Firmware Revision: 1.03

The following notes provide the revision history and a list of known firmware issues in the current release. For more information please call your Extron Applications Engineer.

Updated: October 16, 2008

Extron Products Affected: MLC 104 IP Plus
MLC 104 IP Plus L
MLC 104 IP Plus AAP
MLC 104 IP Plus DV+

Current Engineering Revision: E19931

TECH NOTES

Updating firmware – The following steps should be taken when updating firmware. Please refer to the User's Manual or Global Configurator help file for more details on each of these steps.

1. Download and install the latest version of the Global Configurator Software available at the [Extron Download Center](#).
2. Make sure you have a saved copy of the current Global Configurator 2.X configuration. If you do not, import the project from the device and save to the local disk.
3. Update the firmware. Firmware update instructions are included with all firmware installation packages. Refer to these instructions found at *C:\Program Files\Extron\Firmware\MLC_104_IP_Plus\03*.
4. Open or import the project using Global Configurator.
5. Right click on the MLC that was updated and select *Reset Device Settings and Files* in the context menu.

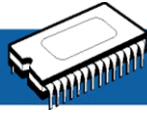
Note: Must use GC version 2.2.1 or later. If using an older version, reset the MLC using the SIS command EscZY← via telnet or RS-232.

6. Rebuild and upload the configuration.

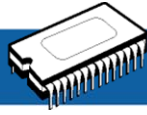
Software requirements – The MLC 104 IP Plus requires Global Configurator version 2.2.0 or higher.

Retaining controller settings – Since the MLC 104 IP Plus series controllers use a non-volatile flash memory, any changes to the controller's settings such as volume, executive mode, etc., via the front panel, RS-232 or IP communication will take up to 100 seconds to be saved to the controller's flash memory. Removing power to the controller before this time may result in a loss of these settings. To ensure that all settings are saved, wait at least 100 seconds before removing power.

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TECH NOTES - Continued

Using PIN lockout – If using the PIN feature, there should be no press operations programmed on the ON & OFF buttons. Press operations on these buttons may be inadvertently triggered when entering the PIN to lock/unlock the front panel.

Embedded web page support – Version 1.02 firmware or higher requires Global Configurator version 2.4.1 or higher to support configuration, file management and control web pages.

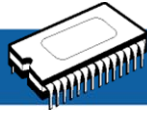
SCP 104 support – The SCP 104 must have firmware 1.01 or greater and DIP switch 4 in the ON (up) position to operate with the MLC 104 IP Plus. Refer to the [SCP User's Manual](#) for more details.

KNOWN ISSUES

The following is a list of known firmware issues found in Firmware Version **1.03**

No known issues

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FIRMWARE RELEASE HISTORY

Released Version: 1.03

Affects:

Engineering Revision: prior to E19931

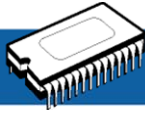
Firmware Revision: 1.02 or earlier

Date: Units shipped prior to October 2008

The following is a list of changes and fixes in this release.

Updated embedded web page – The IP settings and passwords web pages were added to the configuration tab. All other files will be loaded via Global Configurator v2.4.1 or later upon configuration.

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FIRMWARE RELEASE HISTORY

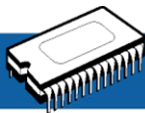
Released Version: 1.02**Affects:****Engineering Revision:** prior to E19534A**Firmware Revision:** 1.01 or earlier**Date:** Units shipped prior to July 2008

The following is a list of changes and fixes in this release.

Added support for GlobalViewer Enterprise – This firmware version adds support for GlobalViewer Enterprise, Extron’s server-based resource management software.

Updated embedded web page – The configuration, file management and control tabs were removed from the firmware. These files will be loaded via Global Configurator v2.4.1 or later upon configuration. A text equivalent for every non-text element was added via the “alt” attribute.

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FIRMWARE RELEASE HISTORY

Released Version: 1.01**Affects:****Engineering Revision:** prior to E18222**Firmware Revision:** 1.00**Date:** Units shipped prior to July 2007

The following is a list of changes and fixes in this release.

Added volume encoder scaling – An SIS command has been added to scale down the speed of the volume knob encoder. This will reduce the rate at which RS-232 commands are sent by the MLC to the device that requires audio control. This command only applies to range type audio control and will result in a smoother volume ramp.

Added switcher support – This version of firmware adds support for detection of the PVS 204SA twisted pair switcher (MediaLink™ PoleVault™ System). All other non-MediaLink Extron switchers (e.g. MPS 112) are now supported as a generic Extron switcher.

Added IR disable - An SIS command has been added to allow the receivers on the IR Link/IRL 20 to be enabled or disabled.

Updated Daylight Saving Time schedule for USA – Starting 2007, the USA Daylight Saving Time schedule changed to spring forward one hour on the second Sunday in March (three weeks earlier than previous years) and fall back one hour on the first Sunday in November (one week later than previous years).

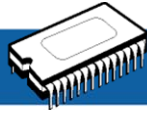
Updated e-mail command – The SIS command to send e-mails can now take an e-mail address as the first parameter. This allows the MLC to send e-mails using destination addresses longer than 30 characters.

Fixed volume knob trigger when power cycled – The volume up command may be triggered if the MLC is power cycled while set to increment/decrement volume mode. If the volume up button was programmed to control a projector's volume, this may cause the projector to power up unexpectedly. This issue has been resolved.

Fixed un-muting of MediaLink switcher when using the PIN feature – Using the front panel PIN feature of the MediaLink controller may cause the MediaLink switcher to un-mute. This issue has been resolved.

Fixed main board voltage error in default web page – The main board voltage reported an E13 error code in the default system status web page. This issue has been resolved and will now report the correct board voltage.

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FIRMWARE RELEASE HISTORY - Continued

Fixed IR playback of commands with 0 repeat rate – Playback of IR commands with a 0 repeat rate will no longer playback the command continuously. This issue has been resolved.

Fixed response to SCP detection – The response to the SCP/Control Module query (32I command) will now return a parameter of 01 instead of 03 when an SCP 104 is detected.

Fixed volume LED status – When turning the volume encoder on the front panel, the volume LEDs may not appear to ramp smoothly. This issue has been resolved.

Changed default digital output states – The default state for digital output modes has been changed from on (closed) to off (open).

Commit settings to flash after a reset – after a reset, all device settings are immediately saved to flash memory. Previously, it would take up to 100 seconds.

Increased email buffer – The email buffer has been increased from 64 to 128.

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