

Current Firmware Revision: 1.06

The following notes provide known firmware issues and release history for the Extron CrossPoint 300 Series, CrossPoint 450 Plus Series, MVX and MVX Plus Series and MAV Plus Series matrix switchers. For more information please call your Extron Applications Engineer.

Updated: November 20, 2007
Extron Products Affected: CrossPoint 300, CrossPoint 450 Plus and MAV Plus matrix switchers (sizes 8x4 through 16x16) MVX and MVX Plus 128 and 1616 series
Firmware part number: 19-1486-50
Current Engineering Revision: E18758
Current Firmware Revision Affected: 1.04
Current Firmware: 1.06

TECH NOTES

Firmware version 1.05 was never released in shipping units.

KNOWN FIRMWARE ISSUES

None

FIRMWARE RELEASE HISTORY

Engineering Revision Affected: E18758

Firmware Revision Affected: 1.04 and older

Date of Occurrence: Units shipped March 2007 through November 2007 with firmware V 1.04 and older

Firmware revision 1.06 provides support for updates to hardware that do not change the basic operation of the switchers.

The following new features have been added to the Series:

- **Added support for new Matrix configurations.**

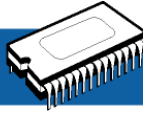
<u>Switcher description</u>	<u>Part #</u>
MVX 1212 VGA A	60-838-01
MVX 168 VGA A	60-858-01
MVX 1616 VGA A	60-839-01

USA: 800.633.9876 (inside US/Canada only) or 714.491.1500

Europe: +800.3987.6673 (inside Europe only) or +31.33.453.4040

Asia: +65.383.4400

Japan: +81.3.3511.7655



The following is a list of issues found in Firmware Version 1.04 that are now resolved by Version 1.06.

- **Corrected the configuration response of MAV Plus 16x8 series when firmware 1.04 is uploaded to the switcher.**

If you upgrade the firmware of the current MAV Plus 16x8 series (VA, SVA or HD A) from 1.03 to 1.04, the front panel and the "I" command would report a 16x16 configuration instead of 16x8. This has been corrected. Note that CrossPoint 300 and CrossPoint 450 Plus models did not have this issue.

- **Corrected the LS command response of the CrossPoint 450 Plus 8xN series. The vertical reading is now visible.**

This issue affects CrossPoint 450 Plus 8x4, 8x8, 8x16 HVA models and the sync rate reported through DSVP. When the individual sync frequencies (H & V) are read using the LS command, the horizontal rate was read correctly but not the vertical.

For example:

	H	V		H	V
1LS	031.46,0	(current-vertical missing digits)		031.46,	059.9 (correct) -webpage

Note: This affects the SIS command & WCP responses. Webpage is OK.

- **Corrected the part number N command response for the MVX 128 VGA A series.**

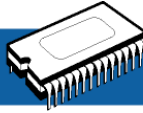
When using the N command with MVX 128 VGA series, the switchers would respond with the wrong part numbers (60-789-01 /-02). The correct response should be 60-799-01 /-02.

- **Corrected the Genlock feature.**

The Genlock feature with MAV Plus models allowed switching to occur near the end of the vertical interval, which was visible in some display systems. This has been corrected.

- **Corrected the audio output pop when making or breaking I/O ties without an audio source connected.**
- **Corrected the noise on audio outputs caused by the QS-FPC buttons.**

When the QS-FPC buttons are blinking (example pending ties), background illuminated or the button lights are on (example view mode), it produced a noise on the audio output. This has been corrected.



Current Firmware Revision: 1.04

The following notes provide known firmware issues and release history for the Extron CrossPoint 300, CrossPoint 450 Plus and MAV Plus matrix switchers. For more information please call your Extron Applications Engineer.

Updated: March 20, 2007
Extron Products Affected: CrossPoint 300, CrossPoint 450 Plus and MAV Plus matrix switchers (sizes 8x4 though 16x16) MVX and MVX Plus 128 and 1616 series
Firmware part number: 19-1486-50
Current Engineering Revision: E 17920
Current Firmware Revision Affected: 1.03
Current Firmware: 1.04

TECH NOTES

Firmware version 1.02 was never released in shipping units.

KNOWN FIRMWARE ISSUES

Known issues involving version 1.04

- If you upgrade the firmware of the current MAV Plus 16x8 series (VA, SVA or HD A) from 1.03 to 1.04, the front panel and the "I" command will report a 16x16 configuration instead of 16x8. CP 300 & 450 Plus' does not have this issue.
- This issue only affects CP 450 Plus 8x4, 8x8, 8x16 HVA DSVP

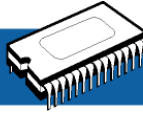
When you read the individual sync frequencies (H & V) using the LS command, it will read the horizontal correctly but not the vertical.

For example:

	H	V		H	V
1LS	031.46,0	(current-vertical missing digits)		031.46, 059.9	(correct) -webpage

Note: This affects the SIS command & WCP responses. Webpage is OK.

- When using the N command with MVX 128 VGA series, the switchers will response with the wrong part numbers (60-789-01 /-02). The correct response should be 60-799-01 /-02.



- Gen-lock feature with MAV Plus models - switching occurs near the end of the vertical interval which may be visible in some display systems.

FIRMWARE RELEASE HISTORY

Engineering Revision Affected: E16556

Firmware Revision Affected: 1.03 and older

Date of Occurrence: Units shipped April 2006 through March 2007 with firmware V 1.03 and older

Firmware revision 1.04 provides support for updates to hardware that do not change the basic operation of the switchers.

The following new features have been added to the Series:

- **Front panel "CONFIG" port added:**

An RS-232 control port, on a 2.5mm TRS mini jack, is being added to these matrix switchers as a convenience for technicians to access, configure and temporarily control the switcher without having to access the rear panel 9-pin serial control port. This config port is a separate control point from the rear panel port.

- **Advanced front panel control (Executive Mode command update):**

A functional change has been made regarding user access to certain advanced set-up and control features that are available from the front panel.

The advanced features can be enabled or view only (default).

When enabled, advanced features can be accessed and adjusted through front panel control.

When view only (default), advanced features can be accessed but **cannot be adjusted** through front panel control.

Basic Features: (always available)

Backlight on/off (hold inputs 1 and 2 buttons for 2 seconds to toggle)

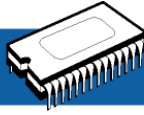
Audio Input gain/attenuation (hold Audio button down for 3 seconds)

USA: 800.633.9876 (inside US/Canada only) or 714.491.1500

Europe: +800.3987.6673 (inside Europe only) or +31.33.453.4040

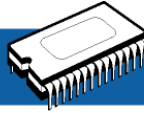
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Japan: +81.3.3511.7655

**Making Ties****Recalling and Saving Presets** (press Preset to recall or hold for 2 seconds to save)**Executive Mode Command Changes** (hold I/O or Enter+ I/O buttons for 2 seconds)*Advanced Features: (can be enabled or view only)***RGB Delay** (hold Video/RGBHV button for 3 seconds)**I/O grouping** (hold input 1 and output 1 buttons for 3 seconds)**RS-232/422 port settings** (hold all Control buttons for 3 seconds)**Audio output volume control** (hold Audio button down for 3 seconds) Select an output**Output Muting** (In View mode, hold an output button 3 seconds to toggle)**Current modes of FPC operation**

FPC operation = press and hold both the VIDEO and AUDIO I/O buttons for 2 seconds to toggle mode between modes. The I/O buttons will flash two times to indicate the state change.

0X = All FPC functions available (Version 1.03 Default Condition)**1X** = Only view mode available – no changes can be made
Any attempt to control switcher flashes I/O buttons two times.**2X** = All basic FPC functions are available - Advanced Features are View only, no setting allowed (Mode 2X is the new version 1.04 Default Condition)



FPC selection: *New mode of FPC operation in Version 1.04*

Press and hold the VIDEO and AUDIO I/O buttons for 2 seconds to toggle between modes 2X and 1X. (Compatible with the current control method). The I/O buttons will flash two times.

Press and hold I/O buttons VIDEO, AUDIO and the ENTER button for 2 seconds to toggle between 2X and 0X. The I/O and Enter buttons will flash two times.

When Executive mode is set (1X) VIDEO, AUDIO will flash two times when a front panel function other than View is performed.

- **Webpage new features**

1. Under Control / Set and View Ties page, erasing tie(s) is now possible.
2. Under Control / Global Presets page, when you save or rename a preset, the preset number box turns BLUE for reference.

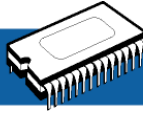
- **SIS "LS" command updates for the CrossPoint 450 plus models**

The "OLS" command allows the user to verify active sources by polling all inputs for valid sync signals. The unit will respond with a string of numbers, "0" if no signal is present and a "1" if there is a sync signal present at the input.

<u>Command</u>	<u>Response</u>	<u>Note</u>
0ls	10000000000000000000000000000000←	
0ls	In00 10000000000000000000000000000000←	Tagged response

- **Added support for new Matrix configurations.**

<u>Switcher description</u>	<u>Part #</u>
MAV Plus 164 A	60-854-13
MAV Plus 1212 AV	60-851-16
MAV Plus 1212 V	60-851-15
MAV Plus 1212 SVA	60-853-21
MAV Plus 1212 SV	60-853-22
CP 300 1212 HVA	60-851-16
CP 300 1212 HV	60-851-15
CP 450 Plus 1212 HVA	60-852-11
CP 450 Plus 1212 HV	60-852-11

**Firmware Revision: 1.03**

The following notes provide known firmware issues and release history for the Extron CrossPoint 300, CrossPoint 450 plus and MAV plus matrix switchers. For more information please call your Extron Applications Engineer.

Updated:	April 4, 2006
Extron Products Affected:	CrossPoint 300, CrossPoint 450 plus and MAV plus matrix switchers MVX and MVX plus 128 (sizes 8x4 though 16x16)
Firmware part number:	19-1486-50
Current Engineering Revision:	E16556
Current Firmware Revision:	1.03

KNOWN FIRMWARE ISSUES

Firmware version 1.02 was not released
Known issues involving version 1.03 None

FIRMWARE RELEASE HISTORY

Engineering Revision Affected: E15434 through E16550

Firmware Revision Affected: 1.01

Date of Occurrence: Units shipped May 2005 through April 2006 with firmware V 1.01

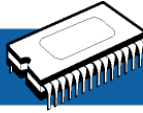
The following is a list of issues found in Firmware Version 1.01 that are now resolved by Version 1.03.

- **Corrected the response to SIS commands for “View I/O Grouping”** - CrossPoint 450 plus 84 through 128 switchers did not respond to the esc I and esc O commands used to view I/O grouping. The Matrix Switcher control program did not update or show any grouped inputs and outputs that may be set in the switcher.
- **Corrected response tags in VERBOSE mode** - Command responses for queries as to the switcher’s state do not return tags when IP and RS-232 port is set to VERBOSE mode 2 or 3. (Response Tags)

	<u>ASCII (Telnet)</u>	<u>URL Encoded (Web)**</u>	<u>Unit response</u>
Set verbose mode ²⁴	Esc x ₂₂ CV ←	W x ₂₂ CV	Vrb x ₂₂ ↵
View verbose mode	Esc CV ←	WCV	x ₂₂ ↵

x₂₂ = Verbose/Response Mode: 0=clear/none; 1=verbose mode; 2=tagged responses for queries; 3=verbose mode and tagged responses for queries. (default = 0 for telnet connections, 1 for RS-232 host control). Note: If tagged responses is enabled, all read commands will return the constant string + the data, like setting the value does

Verbose mode Provides unit responses when commands are issued through another control port or front panel control.



SIS read commands “&”, “%”, “#” and “\$” respond with the input number only
Control port set to verbose mode 2 or 3 (tagged responses)

	<u>Command</u>	<u>Response</u>
Rev. 1.01	1\$	01
Rev. 1.03	1\$	Out01 In01 Aud↵

- **Corrected SIS Read Command for Presets** - SIS read command for presets did not have tags assigned for Verbose modes 2 and 3

	<u>Command</u>	<u>Response</u>	<u>Note</u>
Rev. 1.01	Esc00*01*1VC	01 02 0316 Vid↵	Preset 0 (current) start with output 1, Video
Rev. 1.03	Esc00*01*1VC	Vgp00 Out01 01 02 0316 Vid↵	
Rev. 1.01	Esc00*01*2VC	01 02 0316 Aud↵	Preset 0 (current) start with output 1, Audio
Rev. 1.03	Esc00*01*2VC	Vgp00 Out01 01 02 0316 Aud↵	

- **Corrected SIS Read Command for Input Sync** - SIS read command for Input sync (LS) does not have tags assigned for Verbose modes 2 and 3

	<u>Command</u>	<u>Response</u>	<u>Note</u>
Rev. 1.01	1LS	000.00,000.00↵	Input 1 list sync H-sync, V-sync
Rev. 1.03	1LS	In01 000.00,000.00↵	

- **Corrected ID Command response** - ID command responded as an RGB delay command

Correct command structure and response:

Set event's Target IP address ²⁴	Esc x ₃₅ , x ₁₄ ID↵	Edi x ₃₅ *x ₁₄ ↵
View event's Target IP address	Esc x ₃₅ ID ↵	x ₁₄ ↵

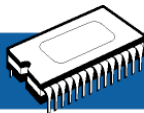
x₃₅ = Event number: range=0–99 (max) event must be running

x₁₄ = IP address (xxx.xxx.xxx.xxx).

Leading zeros in each of 4 fields are optional in setting values, and are suppressed in returned values

Factory Default IP address: 192.168.254.254

Default broadcast IP address: 255.255.255.255



- **Add support for new products.**

Switcher description

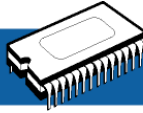
Part #

MVX Plus 128 VGA A

60-788-01

MVX 128 VGA A

60-799-01

**Firmware Revision: 1.01**

The following notes provide known firmware issues and release history for the Extron CrossPoint 300, CrossPoint 450 plus and MAV plus matrix switchers. For more information please call your Extron Applications Engineer.

Updated: April 4, 2005
Extron Products Affected: CrossPoint 300, CrossPoint 450 plus and MAV plus Series matrix switchers (sizes 8x4 though 16x16)
Current Engineering Revision: E15434
Current Firmware Revision: 1.01

KNOWN FIRMWARE ISSUES

No known issues involving version 1.01

FIRMWARE RELEASE HISTORY

Engineering Revision Affected: E15330 and before
Firmware Revision Affected: 1.00
Date of Occurrence: Units shipped January 2005 through May 2005 with firmware V 1.00

The following is a list of Changes and fixes in this revision.

- **Corrected the SIS response for pending room presets** - Windows Control Program did not show the correct ties for pending room presets. It did, however recall the room preset correctly. This was due to an incorrect SIS response from matrix switcher.

View room *video* preset

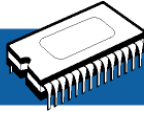
SIS command = (esc)(room #)*(room preset #)*1*1VC← produces an incorrect response

View room *audio* preset

SIS command = (esc)(room #)*(room preset #)*1*2VC← produces an incorrect response

- **Corrected the reporting of part numbers for selected MAV Plus 168 Series models** - The part numbers for the MAV plus 168 AV, 168 V, and 168 A, were incorrectly reported.

<u>Switcher description</u>	<u>Reported part #</u>	<u>Correct part #</u>
MAV plus 168AV	60-629-11	60-329-11
MAV plus 168 V	60-629-12	60-329-12
MAV plus 168 A	60-329-13	60-329-13



- **Corrected the front panel display of I/O selection status on the MAV Plus 128 SVA (60-658LV) --** The switcher did not recognize the I/O selection switch on the front panel. SIS, the Windows control program, and web page controls, did work correctly.
- **Corrected the front panel display on 8x4 through 12x8 models when Preset 31 is saved --** When preset 31 was saved, pressing the preset button illuminated all control buttons red; only the preset button should light in this condition.
- **Corrected the front panel recall and display of Presets 13 through 32 --** When presets 13 through 32 were saved, the front panel did not consistently display or recall these presets properly. SIS and the Windows control program did work correctly.
- **Corrected a variety of Webpage problems for MAV Plus Series switchers, including:**
 - Script errors on control page loading
 - Audio, Video, Audio and Video settings tabs mislabeled on “Control” Tab
 - Audio controls missing
 - MAV plus 816A (60-659-13) unit name is not displayed, all pages show script errors
- **Corrected an Ethernet re-transmit problem --** Under certain conditions when the MAV Plus Series and CrossPoint 450 Plus series switcher was accessed across a proxy server or VPN connection, the product could enter a mode of constant re-transmission of the data previously sent. This caused excessive network traffic.