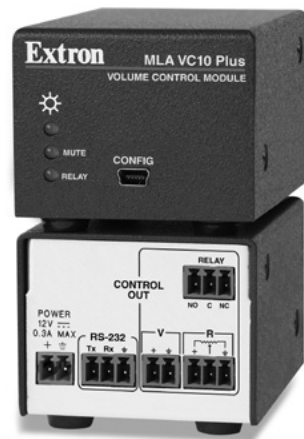


MLA VC10 Plus

VOLUME CONTROL MODULE



The Extron MLA VC10 Plus is a Volume Control Module that interfaces a control system with the Extron MPA Series and half rack XTRA Series amplifiers as well as third-party commercial audio amplifiers. The MLA VC10 Plus is ideal for use with RS-232-capable MediaLink Controllers and TouchLink Touchpanel systems for convenient volume and mute control of amplifiers without RS-232 or Ethernet control.

- Flexible volume and mute control for the MPA Series or half rack XTRA™ Series amplifiers as well as a wide range of commercial amplifiers
- For use with MediaLink® Controllers with RS-232, TouchLink™ Touchpanel systems, and other control systems
- Adjust amplifier volume level using voltage or resistance control
- Ground isolated, digital circuitry prevents noise in signal path
- Soft Start volume ramping gently restores volume levels during power cycles and unmuting
- Selectable volume taper provides a consistent linear or natural logarithmic “feel” to volume changes
- High resolution volume control range for smooth volume changes without audible level jumps
- Real-time status LED indicators for setup and troubleshooting
- RS-232 serial control
- Front panel USB configuration port



Extron® Electronics
INTERFACING, SWITCHING AND CONTROL

DESCRIPTION

The Extron **MLA VC10 Plus** Volume Control Module converts RS-232 commands from a control system into voltage or impedance changes to control audio amplifiers with volume and mute control ports. The MLA VC10 Plus is used to mute or make level changes on an MPA Series or half rack XTRA™ Series amplifier from a TouchLink Touchpanel system, an RS-232-capable MediaLink Controller, or other control system. The control module also supports third-party amplifiers that use either voltage or 10k ohm pot control. The MLA VC10 Plus is housed in a 1U, one-eighth rack width metal enclosure for numerous installation options. A power supply is not required if used with a MediaLink Controller or IPL Series IP Link® Ethernet Control Interface.

Commercial power amplifiers with volume and mute control capability often are not equipped for RS-232 or Ethernet control. The MLA VC10 Plus bridges the gap between these amplifiers and MediaLink and TouchLink control systems by providing a convenient means to adjust volume and muting. It offers variable voltage and resistance outputs to control volume, plus a dual mode relay port that provides contact closure for muting the amplifier.

The MLA VC10 Plus features Soft Start volume ramping which slowly increases the amplifier's volume to the previous level when powering up or when the module is unmuted. Soft Start prevents sudden, loud bursts of sound that can damage equipment or harm the listener's hearing. A mini USB port on the front panel provides convenient access for device configuration. LEDs on the front panel indicate power and mute status, plus relay activity to facilitate setup and troubleshooting. The MLA VC10 Plus also includes an Inverse Mode for amplifiers that require a decrease in control voltage or resistance in order to increase volume. For integration convenience, the control module can be configured using the included Data Viewer software.

FEATURES

- Flexible volume and mute control for the MPA Series or half rack XTRA Series amplifiers as well as a wide range of commercial amplifiers
- For use with MediaLink Controllers with RS-232, TouchLink Touchpanel systems, and other control systems
- Adjust amplifier volume level using voltage or resistance control
- Ground isolated, digital circuitry prevents noise in signal path
- Soft Start volume ramping gently restores volume levels during power cycles and unmuting
- Selectable volume taper provides a consistent linear or natural logarithmic "feel" to volume changes
- High resolution volume control range for smooth volume changes without audible level jumps
- Real-time status LED indicators for setup and troubleshooting
- RS-232 serial control
- Front panel USB configuration port
- Optional external universal power supply - not needed if used with a MediaLink Controller or IPL Series IP Link Ethernet Control Interface

SPECIFICATIONS

CONTROL/REMOTE — MLA VOLUME CONTROLLER

Serial control port.....	1 RS-232, 3.5 mm captive screw connector, 3 pole
Baud rate and protocol.....	9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configuration.....	1 = Tx, 2 = Rx, 3 = GND
USB control ports.....	1 front panel female mini USB B
USB standards.....	USB 2.0, low speed
NOTE: The USB connector provides 5 VDC for configuration purposes only. This port cannot be used to supply power during operation.	
Program control.....	Extron Simple Instruction Set* (SIS*)

CONTROL — VOLTAGE — AMPLIFIER

Number/type.....	1 control voltage
Connectors.....	(1) 3.5 mm captive screw connector, 2 pole
Pin configuration.....	1 = +, 2 = GND
Control voltage output range.....	0 - 10 VDC, adjustable

CONTROL — RESISTANCE — AMPLIFIER

Number/type.....	1 control resistance
Connector.....	(1) 3.5 mm captive screw connector, 3 pole
Pin configuration.....	1 = +, 2 = wiper, 3 = GND
Range.....	0 - 10k ohms, adjustable
Max. input voltage.....	25 VDC

CONTROL — RELAY — AMPLIFIER

Number/type.....	1 momentary or latching
Connector.....	(1) 3.5 mm captive screw connector, 3 pole
Connector configuration.....	1 = 1 normally open relay, 2 = common, 3 = 1 normally closed relay
Contact rating.....	24 V, 1A

GENERAL

Power.....	Supplied by a 12 VDC, 1 A external power supply or a MediaLink® or IP Link® controller
Power input requirements.....	12 VDC, 0.3 A (max.)
Temperature/humidity.....	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling.....	Convection, no vents
Mounting	
Rack mount.....	Yes, with optional 1U rack shelf or back of the rack mounting kit
Furniture mount.....	Yes, with optional mini under-desk mounting kit, or set on tabletop
Enclosure type.....	Metal
Enclosure dimensions.....	1.7" H x 2.2" W x 3.0" D (1U high, one-eighth rack wide) (4.3 cm H x 5.6 cm W x 7.6 cm D) (Depth excludes connectors.)
Product weight.....	0.2 lbs (0.1 kg)
Shipping weight.....	1 lb (0.5 kg)
Vibration.....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety.....	CE, c-UL, UL
Compliances.....	CE, C-tick, FCC Class A, ICES, VCCI
MTBF.....	30,000 hours
Warranty.....	3 years parts and labor
NOTE: All nominal levels are at ±10%.	
NOTE: Specifications are subject to change without notice.	

Model	Version Description	Part number
MLA VC10 Plus	Volume Control Module	60-1090-01

Specifications are subject to change without notice.



Extron **USA - West**
Headquarters
+800.633.9876
Inside USA / Canada Only
+1.714.491.1500
+1.714.491.1517 FAX

Extron **USA - East**
+800.633.9876
Inside USA / Canada Only
+1.919.863.1794
+1.919.863.1797 FAX

Extron **Europe**
+800.3987.6673
Inside Europe Only
+31.33.453.4040
+31.33.453.4050 FAX

Extron **Middle East**
+971.4.2991800
+971.4.2991880 FAX

Extron **Asia**
+800.7339.8766
Inside Asia Only
+65.6383.4400
+65.6383.4664 FAX

Extron **Japan**
+81.3.3511.7655
+81.3.3511.7656 FAX

Extron **China**
+400.883.1568
Inside China Only
+86.21.3760.1568
+86.21.3760.1566 FAX