Partner: L-Acoustics
Model: L-ISA Processor
Device Type: Surround Sound Processor

GENERAL INFORMATION

SIMPLWINDOWS NAME:	L-ISA Processor
CATEGORY:	MULTI-CHANNEL AUDIO PROCESSOR
VERSION:	V1.3.0
SUMMARY:	The module provides monitoring and control over HTTP
GENERAL NOTES:	This module is for the control of one L-ISA Processor
CRESTRON HARDWARE REQUIRED:	4-Series Processors ⚠ **3-Series Processors no longer supported since version 1.3.0.** Contact avcontrol@l-acoustics.com for version 1.2.0 and earlier for 3-Series support.
SETUP OF CRESTRON HARDWARE:	The Crestron Control Processor's IP address usually is in the same subnet as the L-ISA Processors (typically 192.168.1.x/255.255.255.0, but other classes are possible, see the L-ISA Processor user manual). Currently the L-SA Processor does not have an IP Gateway in its network settings. This means that the Crestron Control Processor and the L-ISA Processor (Control network interface) must be set on the same subnet.
VENDOR FIRMWARE:	L-ISA Processor minimum firmware version: v2.4.0
VENDOR SETUP:	L-ISA Processor connected to the Ethernet Network

SUPPORT CONTACT

COMPANY NAME:	L-Acoustics
SUPPORT CONTACT:	Application, Electronics / AV Control System
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RELEASE NOTES

- **Version 1.3.0** (March 2026)

New features/Improvements

CRES-62	SIMPL# library ported to .NET 4.7 Framework (4-Series only, 3-Series compatibility dropped)

Fixed issues

CRES-46	HTTP 400 errors on CP4

Version history

- **Version 1.3.0** (March 2026)
    - SIMPL# library ported to .NET 4.7 Framework (4-Series only, 3-Series compatibility dropped)
- **Version 1.2.0** (May 2023)
    - Support of firmware 3.0
    - Control of Audiomorph parameters
- **Version 1.1.0** (November 2022)
    - Support of firmware 2.5
    - Support 30 configuration memory slots
    - Levels Control
- **Version 1.0.0** (May 2022)

Initial release.

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Note: most input signals are not effective when the L-ISA Processor is locked by L-ISA Controller software (output signal Locked_fb is HIGH). An HTTP 403 error will be raised.

CONTROL

Connect	D	The **Connect** signal is used to activate the functions of the module. As soon as this signal is HIGH, the module starts the polling to the L-ISA Processor over HTTP. When the connection is successful, all other input signals are effective. When the signal is LOW, the module stops all network operations and input signals are not effective.
Power_On **Shut_Down**	D	**Power_On** and **Shut_Down** react to rising edges. ***Note: Power_On and Shut_Down features are only compatible with L-ISA Processor II.*** Setting these signals HIGH turns the L-ISA Processor On or Off.
Recall_Configuration_[XX] *[XX] = 01 to 30*	D	**Recall_Configuration_*[XX]*** react to rising edges. Push these signals to recall one of the existing Configuration memory slots stored inside of the L-ISA Processor.
Mute_[YYY] *[YYY] = Master, Reverb, Monitoring, Fader1 or Fader2*	D	Set the mute state of the Levels Control fader. HIGH = mute LOW = unmute
Level_[YYY]# *[YYY] = Master, Reverb, Monitoring, Fader1 or Fader2*	A	Set the position of the Levels Control fader. Range: from 0d (-80.0 dB) to 65535d (0.0 db).
Level_[YYY]_Up *[YYY] = Master, Reverb, Monitoring, Fader1 or Fader2*	D	These signals react to a rising edge. Increase the level of the Levels Control fader by the amount of dB determined by analog input signal **Level_UpDown_Step_in_dB#**.
Level_[YYY]_Down *[YYY] = Master, Reverb, Monitoring, Fader1 or Fader2*	D	These signals react to a rising edge. Reduce the level of the Levels Control fader by the amount of dB determined by analog input signal **Level_UpDown_Step_in_dB#**.
Level_UpDown_Step_in_dB#	A	Amount of dB to be added to/removed from the Levels Control fader when rising digital input signals **Level_[YYY]_Up** and **Level_[YYY]_Down**. Range: from 1d (1 dB) to 12d (12 dB).
Level_[YYY]_Safe_Recall *[YYY] = Master, Reverb, Monitoring, Fader1 or Fader2*	D	When these signals are set to HIGH, the level of the Levels Control fader is not affected when recalling a configuration with digital input signal **Recall_Configuration_[XX]**. When these signals are set to LOW, the level of the Levels Control fader is restored to the previously saved position when recalling a configuration with digital input signal **Recall_Configuration_[XX]**.

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Mute_[YYY]_Safe_Recall *[YYY] = Master, Reverb, Monitoring, Fader1 or Fader2*	D	When these signals are set to HIGH, the mute state of the Levels Control fader is not affected when recalling a configuration with digital input signal **Recall_Configuration_[XX]**. When these signals are set to LOW, the mute state of the Levels Control fader is restored to the previously saved state when recalling a configuration with digital input signal **Recall_Configuration_[XX]**.
Audiomorph_Immersion#	A	Set the value of the Immersion parameter of Audiomorph. Range: from 0d (-80.0 dB) to 65535d (0.0 db).
Audiomorph_Speed#	A	Set the value of the Speed parameter of Audiomorph. Range: from 0d (0.0) to 65535d (1.0).
Audiomorph_PanOffset#	A	Set the value of the Pan Offset parameter of Audiomorph. Range: from 0d (-180°) to 65535d (+180°).
Audiomorph_PanOffset_Up	D	This signal reacts to a rising edge. Increase the value of the Pan Offset parameter of Audiomorph by an amount define by the **Audiomorph_PanOffset_UpDown_Step_in_deg#** analog input signal
Audiomorph_PanOffset_Down	D	This signal reacts to a rising edge. Decrease the value of the Pan Offset parameter of Audiomorph by an amount define by the **Audiomorph_PanOffset_UpDown_Step_in_deg#** analog input signal
Audiomorph_PanOffset _UpDown_Step_in_deg#	A	Increment/Decrement amount to be applied to the Pan Offset parameter of Audiomorph when raising the **Audiomorph_PanOffset_Up** and **Audiomorph_PanOffset_Down** digital input signals. Range: from 0d (0°) to 45d (45°).

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FEEDBACK

Online_fb	D	This signal is HIGH when the L-ISA Processor is available and connected. This signal is LOW when the L-ISA Processor is not available or when the module is not connected.
Display_Name$	S	Name of the connected L-ISA Processor
Firmware_Version$	S	Current firmware version of the L-ISA Processor
Unique_ID$	S	Unique ID of the connected L-ISA Processor
Locked_fb	D	HIGH = an instance of L-ISA Controller software is currently connected to the L-ISA Processor. The L-ISA Processor is locked and all operations from Crestron are disabled. LOW = the L-ISA Processor is not locked. Operations from Crestron are enabled.
Error_Present_fb	D	HIGH = an error is present in the module (see **Error_Message$** for details). LOW = no error present in the module.
Error_Message$	S	This signal gives details on the nature of the errors present in the module or the unit. If several errors occur, they are delimited by '\r' (\x0D) carriage return characters.
Current_Configuration_Number#	A	If a configuration is currently loaded, this signal represents its index (from 1 to 20). If no configuration is loaded, this signal equals 0.
Current_Configuration_Name$	S	Name of the currently loaded configuration. Empty if no configuration is loaded.
Configuration_[XX]_Name	S	Each signal gives the name of the available configuration stored on the L-ISA Processor. When there is no valid configuration at a given index, then its name is empty.
Mute_[YYY]_fb *[YYY] = Master, Reverb, Monitoring, Fader1 or Fader2*	D	Current mute state of the Levels Control fader HIGH = muted LOW = unmuted
Level_[YYY]_fb# *[YYY] = Master, Reverb, Monitoring, Fader1 or Fader2*	A	Current position of the Levels Control fader Range: 0d (-80.0 dB) to 65535 (0.0 dB)
Level_[YYY]_String$ *[YYY] = Master, Reverb, Monitoring, Fader1 or Fader2*	S	Current level of the Levels Control fader as human-readable dB value.
Audiomorph_Immersion_fb#	A	Current value of the Immersion parameter of Audiomorph. Range: from 0d (-80.0 dB) to 65535d (0.0 db). If Audiomorph is not available or not configured on the connected L-ISA Processor, this output signal is set to 0d.

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Audiomorph_Speed_fb#	A	Current value of the Speed parameter of Audiomorph. Range: from 0d (0.0) to 65535d (1.0). If Audiomorph is not available or not configured on the connected L-ISA Processor, this output signal is set to 0d.
Audiomorph_PanOffset_fb#	A	Current value of the Pan Offset parameter of Audiomorph. Range: from 0d (-180°) to 65535d (+180°). If Audiomorph is not available or not configured on the connected L-ISA Processor, this output signal is set to 0d.
Audiomorph_Immersion_String$	S	String representation of **Audiomorph_Immersion_fb#** for human reading.
Audiomorph_Speed_String$	S	String representation of **Audiomorph_Speed_fb#** for human reading.
Audiomorph_PanOffset_String$	S	String representation of **Audiomorph_PanOffset_fb#** for human reading.

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PARAMETERS

IpAddress	S	IP address of the L-ISA Processor to connect to, for example "192.168.1.100". The IP address must be in the following ranges: - 10.0.0.1 – 10.255.255.254 (Class A) - 172.16.0.1 – 172.31.255.254 (Class B) - 192.168.0.1 – 192.168.255.254 (Class C) - 100.64.0.1 – 100.127.255.254 (SAS) - 169.254.0.1 – 169.254.255.254 (APIPA)

TESTING

OPS USED FOR TESTING:	CP4 2.8005.00012
SIMPL WINDOWS USED FOR TESTING:	4.3000.01
CRESTRON DB USED FOR TESTING:	227.05
DEVICE DB USED FOR TESTING:	200.385
SAMPLE PROGRAM:	Demo

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