

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:	V1.2.0
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:	3-Series Processor, 4-Series Processors
SETUP OF CRESTRON HARDWARE:	<p>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).</p> <p>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.</p>
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
EMAIL ADDRESS:	avcontrol@l-acoustics.com
PHONE:	+33 (0) 1 69 63 69 63
ADDRESS:	L-Acoustics 13 rue Levacher Cintrat 91460 Marcoussis France

RELEASE NOTES

- **Version 1.2.0** (May 2023)

New features/Improvements

	Support of firmware 3.0
8003	Control of Audiomorph parameters

Fixed issues

n/a

Version history

- **Version 1.1.0** (November 2022)
 - o Support of firmware 2.5
 - o Support 30 configuration memory slots
 - o Levels Control

- **Version 1.0.0** (May 2022)

Initial release.

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	<p>The Connect signal is used to activate the functions of the module.</p> <p>D 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.</p>
Power_On Shut_Down	<p>D Power_On and Shut_Down react to rising edges.</p> <p>Note: Power_On and Shut_Down features are only compatible with L-ISA Processor II.</p> <p>Setting these signals HIGH turns the L-ISA Processor On or Off.</p>
Recall_Configuration_[XX] <i>[XX] = 01 to 30</i>	<p>D Recall_Configuration_[XX] react to rising edges.</p> <p>Push these signals to recall one of the existing Configuration memory slots stored inside of the L-ISA Processor.</p>
Mute_[YYY] <i>[YYY] = Master, Reverb, Monitoring, Fader1 or Fader2</i>	<p>D Set the mute state of the Levels Control fader.</p> <p>HIGH = mute LOW = unmute</p>
Level_[YYY]# <i>[YYY] = Master, Reverb, Monitoring, Fader1 or Fader2</i>	<p>A Set the position of the Levels Control fader.</p> <p>Range: from 0d (-80.0 dB) to 65535d (0.0 db).</p>
Level_[YYY]_Up <i>[YYY] = Master, Reverb, Monitoring, Fader1 or Fader2</i>	<p>D These signals react to a rising edge.</p> <p>Increase the level of the Levels Control fader by the amount of dB determined by analog input signal Level_UpDown_Step_in_dB#.</p>
Level_[YYY]_Down <i>[YYY] = Master, Reverb, Monitoring, Fader1 or Fader2</i>	<p>D These signals react to a rising edge.</p> <p>Reduce the level of the Levels Control fader by the amount of dB determined by analog input signal Level_UpDown_Step_in_dB#.</p>
Level_UpDown_Step_in_dB#	<p>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.</p> <p>Range: from 1d (1 dB) to 12d (12 dB).</p>
Level_[YYY]_Safe_Recall <i>[YYY] = Master, Reverb, Monitoring, Fader1 or Fader2</i>	<p>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].</p> <p>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].</p>

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



<p>Mute_[YYY]_Safe_Recall <i>[YYY] = Master, Reverb, Monitoring, Fader1 or Fader2</i></p>	<p>D</p>	<p>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].</p>
<p>Audiomorph_Immersion#</p>	<p>A</p>	<p>Set the value of the Immersion parameter of Audiomorph. Range: from 0d (-80.0 dB) to 65535d (0.0 db).</p>
<p>Audiomorph_Speed#</p>	<p>A</p>	<p>Set the value of the Speed parameter of Audiomorph. Range: from 0d (0.0) to 65535d (1.0).</p>
<p>Audiomorph_PanOffset#</p>	<p>A</p>	<p>Set the value of the Pan Offset parameter of Audiomorph. Range: from 0d (-180°) to 65535d (+180°).</p>
<p>Audiomorph_PanOffset_Up</p>	<p>D</p>	<p>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</p>
<p>Audiomorph_PanOffset_Down</p>	<p>D</p>	<p>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</p>
<p>Audiomorph_PanOffset_UpDown_Step_in_deg#</p>	<p>A</p>	<p>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°).</p>

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 <i>[YYY] = Master, Reverb, Monitoring, Fader1 or Fader2</i>	D	Current mute state of the Levels Control fader HIGH = muted LOW = unmuted
Level_[YYY]_fb# <i>[YYY] = Master, Reverb, Monitoring, Fader1 or Fader2</i>	A	Current position of the Levels Control fader Range: 0d (-80.0 dB) to 65535 (0.0 dB)
Level_[YYY]_String\$ <i>[YYY] = Master, Reverb, Monitoring, Fader1 or Fader2</i>	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.

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



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.

PARAMETERS

IpAddress	S	<p>IP address of the L-ISA Processor to connect to, for example "192.168.1.100".</p> <p>The IP address must be in the following ranges:</p> <ul style="list-style-type: none"> - 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:	RMC3 1.8001.4788.22932
SIMPL WINDOWS USED FOR TESTING:	4.1700.03
CRESTRON DB USED FOR TESTING:	209.0500.001.00
DEVICE DB USED FOR TESTING:	200.14000.001.00
SAMPLE PROGRAM:	Demo