



Lynx LM-A24 Analog I O Module Owner's Manual

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Lynx LM-A24 Analog I O Module



Product Information

The LM-A24 and LM-A4 are specialty analog modules designed for the Lynx Aurora(n) Converter. These modules provide line-level input/output on TRS connectors and are built to the high standards that Lynx converters are known for. They offer pristine transparency, excellent imaging, and ruler-flat frequency response.

These modules are ideal for installations that require a small number of dedicated I/Os without the need for an additional breakout cable. They also offer I/O levels up to +24dBu, ensuring compatibility with other professional studio equipment. One example application is using these modules to provide separate monitor outputs while feeding other Aurora(n) line outputs to a summing mixer.

The LM-A24 and LM-A4 feature output anti-pop relays that provide protection for monitor speakers. The LM-A4 is an output-only module that can be used alongside the four-channel LMPRE4 input-only module to create a cost-effective 4-in/4-out Aurora(n) configuration, perfect for smaller studios and podcasters. Additionally, this configuration allows for future expansion by adding more channels of line-level, AES/EBU, or ADAT I/O.

Input trims, output levels, signal routing, and mixing can be easily controlled from the Aurora(n) front panel or by using Lynx's NControl application on any Windows or Mac computer.

Product Usage Instructions

1. Connect the LM-A24 or LM-A4 module to the Lynx Aurora(n) Converter using TRS connectors.
2. If using the LM-A24 module, connect line-level audio sources to the LINE INPUT connectors on the module.
3. If using the LM-A4 module, ensure that it is connected to the Lynx Aurora(n) Converter properly.
4. If necessary, adjust the input trims on the Aurora(n) front panel or use the NControl application to optimize the input level.
5. Set the desired output level using the low-distortion, digitally-controlled analog attenuator on the LM-A24 or LM-A4 module.
6. If needed, use the Aurora(n) front panel or the NControl application to route and mix signals as required.
7. To protect your monitor speakers, ensure that the output anti-pop relays are activated.

Note:

For more detailed information on specific configurations and settings, refer to the Lynx Aurora(n) configurator available at lynxstudio.com/custom-shop.

Specialty Analog Modules for Lynx Aurora(n) Converter

The LM-A24 module expands the capabilities of the Aurora(n) platform by providing two line inputs and four monitor outputs on TRS connectors. The outputs incorporate precise level control making them ideal for driving monitor speakers or interfacing with other studio devices. The module easily integrates with other I/O channels since its transparent performance matches previous Aurora(n) line-level modules. The LM-A4 is an output-only module which is a lower cost option for applications that do not require additional inputs.

- The LM-A24 and LM-A4 are specialty analog modules that provide line-level I/O on TRS connectors. Designed to the same exacting standards Lynx converters are known for, they offer pristine transparency, excellent imaging, and ruler-flat frequency response.
- These modules provide an excellent solution for installations requiring a small number of dedicated I/O's without the requiring an additional break-out cable. They also offer I/O levels up to +24dBu for extended compatibility with other pro studio equipment. An excellent example application is provid-ing separate monitor

outputs when other Aurora(n) line outputs are being fed to a summing mixer.

- The outputs can easily drive powered monitors and offer precise level control via a low-distortion, digitally-controlled analog attenuator. This analog-domain attenuator maintains a high signal-to-noise ratio over the adjustment range.
- Monitor speaker protection is provided by output anti-pop relays.
- The output-only LM-A4 is an excellent companion to the four-channel LM-PRE4 input-only module. The combination of these two modules allows for the configuration of a lower cost 4-in/4-out Aurora(n) which is ideal for smaller studios and podcasters. This can also act as a starter configuration with plenty of room for adding more channels of line-level, AES/EBU, or ADAT I/O.
- Input trims, output levels, signal routing and mixing are easily controlled from the Aurora(n) front panel or using Lynx's NControl application on any Windows or Mac computer.

FEATURES

- Lynx proprietary 24-bit A/D and D/A conversion
- Four electronically balanced outputs on TRS
- Output level adjustments in 0.5dB increments up to +24dBu
- Two electronically balanced inputs accept levels up to +24Bu on TRS (LM-A24 only)
- Fully-differential transparent design
- Line level performance identical to LM-AIO8E
- Anti-pop relays on outputs for silent power-ups and -downs
- Seamless integration with Aurora(n)'s mixing and routing engine

Overview

Aurora(n) front panel



Aurora(n) rear panel with LM-A24 module



SPECIFICATIONS

	PRICESLINE INPUT (LM-A24)	LINE OUTPUT (LM-A24 & LM-A4)
THD+N 1kHz, -1dBFS, 20kHz filter	-113dB (+20dBu trim)	-108dB (+20dBu FS setting)
Dynamic Range A-weighted, -60dBFS method	119dB	120dB
Frequency Response Deviation over 20-20kHz band, -1dBFS	±0.010dB	±0.025dB
Crosstalk Adjacent channel, -1dBFS, 1kHz	-130dB max.	-130dB max
Common Mode Rejection -1dBFS, 60Hz and 1kHz	Greater than 80dB	N/A
Full-scale Trim Settings	+20dBu, +24dBu	N/A
Output Level	N/A	-71.5dBu to +24dBu (adjustable in 0.5dB increments in the analog domain)
Connector	Electronically Balanced TRS	Electronically Balanced TRS

All measurements made with Audio Precision SYS-2722 Audio Analyzer.

SUGGESTED RETAIL PRICES

- **LM-A24**

\$750

- **LM-A4**

\$575

See the Lynx Aurora(n) configurator at lynxstudio.com/custom-shop for all Aurora(n) configurations.

www.lynxstudio.com.

Documents / Resources



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LM-A24 Analog I O Module, LM-A24, Analog I O Module, I O Module, Module

References

- [Lynx Custom shop - Lynx Studio Technology, Inc.](#)
- [Lynx Lynx Studio Technology, Inc.](#)

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