LUNA-U

Unified audio matrix processor

Highlights:

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Product information:

The LUNA-U is the next-generation audio matrix processor, offering highly flexible and scalable system solutions for audio distribution from medium-sized to the largest enterprise solutions. The internal structure provides unseen flexibility and a vast number of possibilities for an audio distribution system. The powerful DSPs (dual SHARC) combined with 32-bit ADC and DAC converters allow the most extensive signal processing with superb audio quality.

It includes 12 Mic/Line Inputs and 8 Line level outputs. Additionally, up to 32 Dante™/AES67 I/O Channels are available with a single ethernet port, allowing the integration of the system with any Dante™/AES67 compatible audio over IP I/O unit.

The flexible architecture allows fully flexible mapping of the signal path to any of the 32 mono or 16 stereo zones, while the powerful DSP resources provide unique processing features on all input channels, output channels, and zones. Dante-enabled paging microphones and smart wall panels make the complete system solution even more flexible and unique.

The internal Linux core brings the entire control of this system and family members together, while also accommodating messaging, event scheduling, and implementation possibilities for further Linux-based functions. Besides the full network control, other options like RS-232 and RS-485 are also implemented for third-party control. For your system solution, you can easily incorporate the control of the entire system and compatible devices into your user interface by using our simplified design and system control platform, AUDAC Touch™.

Certification:

Dante™
Option available

Additional Inputs:

USB TCP-IP

System specifications:

Inputs	Mic / Line inputs	12
	GPIO Inputs	12 (in)
	USB Inputs (Type C)	null
		null
		null
Outputs	Line outputs	8
	GPIO Outputs	12 (out)
	Fault	null
Network audio I/O		null
Zones		null
		null
Configurable settings	ALC (Automatic Gain control)	Yes
	AEC (Acoustic Echo cancellation)	No
	Integrated event scheduler	Yes
	Phantom power on inputs	null
	WaveTune (input & zone)	null
	WavePreset (output)	null
	Delay (output)	null
	Mono / stereo zones (configurable)	Yes
	Mixing	Yes
	Talkover	Yes
	Paging	Yes
	Priorities	null
	Integrated generator	null
	Output Volume offset	Yes
	Others	null
DSP Processor		null
		null
Configuration		Audac Touch™
Controls & indicators	Front panel	null
	Interface ports	RS-232
		RS-485
		null

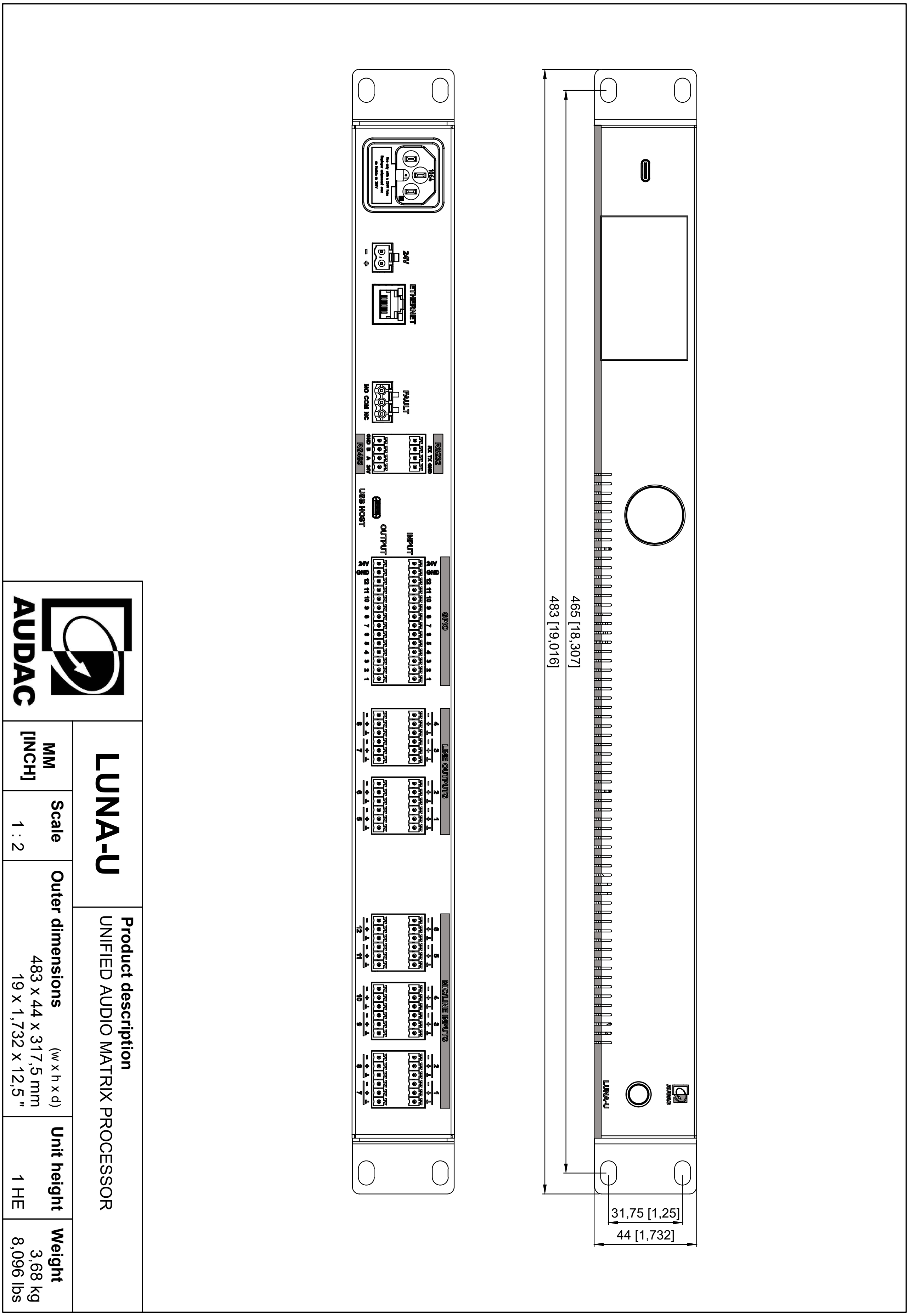
Power	Supply	100 ~ 240 V AC / 50 ~ 60 Hz
		24 V DC

Product Features:

Dimensions	18.98 x 1.73 x 13.19 " (W x H x D)
Mounting	19”
Unit height	1 HE
Construction	Steel
Colours	Black (RAL9005)

Architects’ and Engineers’ Specifications:

The network audio processor shall be a flexible and scalable mixture of analog and network channels. It shall have dual SHARC DSPs with ARM core based on Linux combined with 32-bit ADC and DAC converters, allowing the most extensive signal processing with superb audio quality. It shall include 12 input channels and 8 output channels. Phantom power shall be available on all inputs. All analog inputs shall be able to carry line- and microphone-level signals. It shall have 8 x 8 Dante™/AES67 network audio I/O channels with an extension networked audio module and shall have the capability of increasing up to 32 x 32 Dante™/AES67 network audio I/O channels with additional licenses. It shall have a single Ethernet port, allowing the integration of the system with any Dante™/AES67 compatible audio over IP I/O units when an extension networked audio module is installed. It shall have USB ports on the front and rear panels, and they shall be Type C. These inputs shall be used for file transfer and mass storage for voice files being played on announcements. Pre-gain shall be available for microphone/line level adjustment on physical inputs. The available DSP processing functionality on the inputs shall include Automatic Gain Control (AGC), high pass/low pass filtering, 7-band parametric equalizing, anti-feedback, 100 milliseconds of delay possibility, and trigger threshold. It shall include 32 mono or 16 stereo zones. Up to 16 inputs or zones shall be mappable via an Audio Bridge which shall be mixable in each of the available zones using the zone mixer feature. Each zone shall include talk over, paging volume control, four levels of priority, 7-band parametric equalizing, and compressor/limiter functionality. The output channels shall include gain setting, high pass/low pass filtering, 12-band parametric equalizing, 2000 milliseconds of delay possibility, and antiphase functionality. The device shall have 12 GPIO inputs and 12 GPIO outputs. The GPIO ports shall have active low/high triggering, 0-33V configurable threshold level triggering, and edge triggering in the input configuration and open drain in the output configuration. The device shall be controllable intuitively through the 2.8" LCD display with a rotary encoder on the front panel or by using TCP/IP, RS-232, and RS-485 connection possibilities. A total system control platform shall be freely available and compatible with a wide variety of operating systems, including Android, iOS, Windows, and Mac. This platform shall allow simplified design and management of deployment with functional and informative widgets and dashboards in combination with third-party audio and video equipment control possibilities. It shall allow quick access to features such as I/O volume, mapping, mixing, source selection, and others. The device shall have an auto-update (OTA) feature. The power supply shall be a switching mode type operating on a 100~240 V AC/50~60 Hz mains network. Additionally, an emergency power inlet shall be provided to keep the system running on 24V emergency power when the main power is shut down. It shall be equipped with a removable power cord with a standard Schuko (CEE 7/7) AC plug. The connector on the chassis shall be a fused IEC C14 type. The network audio processor shall have a form factor of 19” and 1 RU.


465 [18,307]
483 [19,016]
31,75 [1,25]
44 [1,732]
AUDAC
LUNA-U
Product description
UNIFIED AUDIO MATRIX PROCESSOR
MM
[INCH]
Scale
1 : 2
Outer dimensions (w x h x d)
483 x 44 x 317,5 mm
19 x 1,732 x 12,5 "
Unit height
1 HE
Weight
3,68 kg
8,096 lbs