

Highlights:

- Scalable flexibility
- 32-bit ADC & DAC (@48 kHz sample rate)
- Scalable mixture of analogue and network channels
- Auto-update (OTA) feature
- Unmatched flexibility for input, output & zone mapping
- AudioBridge for Dante™/AES67 audio transfer for all inputs & outputs (Optional)
- Compatible with all Dante™/AES67 paging/in & output devices (Optional)
- Fully scalable from medium sized to the largest enterprise solutions (Optional)
- Expandable up to 32 x 32 Dante™/AES67 channels (with optional extension card)

Product information:

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

It includes 12 analogue audio inputs and 8 analogue audio line outputs. The analogue inputs are switchable between microphone and line-level inputs, with sufficient headroom to accept high-level audio signals without clipping or distortion. Optionally, the system can be expanded with Dante™/AES67 in-& outputs modules, allowing the integration of the system with networked-based input units and being compatible with any Dante™/AES67 compatible endpoints.

The inner structure allows fully flexible mapping of the signal path to any of the 16 stereo (or 32 mono) zones, while the powerful DSP's are providing resources for DSP functions such as ALC, WaveTune on all inputs and zone, WavePreset on all direct outputs, audio delay, mixing, talk over, 4 level priorities... and many more. Specific paging functions make the system even further unique.

The internal Linux core brings the entire control of this system and peripherals together, while also accommodating an internal messaging module, timer scheduler module and implementation possibilities for further Linux-based functions. Besides the full network control, other options like RS-232 and RS-485 are also implemented.

The entire system is controlled through the AUDAC Touch™ app, which also takes control of the entire system including all compatible devices and peripherals.



Certification:



Additional Inputs:



System specifications:

Inputs	Mic / Line inputs	12
	GPIO Inputs	12 (in)
	USB Inputs (Type C)	Front (file transfer)
		Mass storage for messages
Outputs		Rear (file transfer)
	Line outputs	8
	GPIO Outputs	12 (out)
	Fault	NO & NC relay contact
Network audio I/O		Optional Dante™/AES67 (8x8, 16x16, 32x32)
Zones		32 Mono
		16 Stereo
Configurable settings	ALC (Automatic Gain control)	Yes
	AEC (Acoustic Echo cancellation)	No
	Integrated event scheduler	Yes
	Phantom power on inputs	+48 V DC
	WaveTune (input & zone)	7-band EQ
	WavePreset (output)	12xBiquad +LP+HP
	Delay (output)	2000 ms (target)
	Mono / stereo zones (configurable)	Yes
	Mixing	Yes
	Talkover	Yes
	Paging	Yes
	Priorities	4 each zone
	Integrated generator	Sine or Pnoise or Wnoise
	Output Volume offset	Yes
	Others	Antiphase, bass & treble, input volume, ...
DSP Processor		Dual core SHARC
		ARM Linux core
Configuration		Audac Touch™
Controls & indicators	Front panel	2.8" LCD Display with rotary encoder
	Interface ports	RS-232
		RS-485
		Gigabit Ethernet (RJ45 primary)

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

Product Features:

Dimensions	482 x 44 x 335 mm (W x H x D)
Mounting	19"
Unit height	1 HE
Construction	Steel
Colours	Black (RAL9005)

PRELIMINARY

