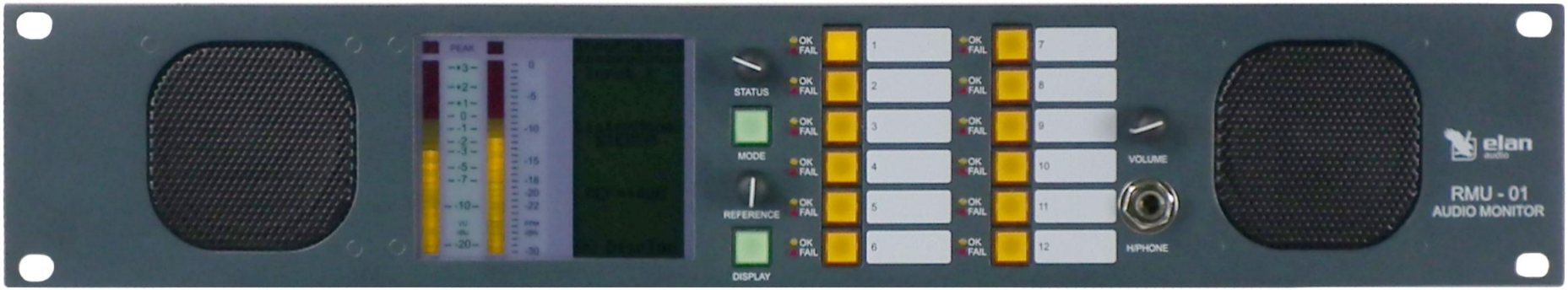
RMU-01

AUDIO MONITOR WITH PROGRAM FAIL
PROGRAM SWITCHER
ANALOG & AES



The RMU-01 monitor unit is a 12 stereo input audio monitor and switcher, with the option of expanding to 18 inputs. Inputs are arranged in groups of 6 by modular input card, with 3 input bays available. Standard inputs are balanced stereo and AES. An SDI input card is planned for the near future.

Each stereo input has a program fail alarm with adjustable delay and sensitivity. The inputs can be mixed and a stereo balanced analog and AES output are provided.

Visual monitoring by 2x 30 segment LED VU or PPM meter, with each input having audio presence and fail LED's. A front panel LCD display shows input name, status, alarm state, bit rate, selectable by rotary encoder.

Audio monitoring by 2 onboard full range high power speakers, headphone socket and 30W amplifier to connect external speakers. Selectable to monitor Stereo, Left, Right, Mono and Anti Phase.

The RMU-01 has a variety of remote capabilities: remote switching via RS485 serial port; programming and remote control by USB or optional LAN.

The audio output can also be streamed via the LAN option for external monitoring. (LAN option in development)

The RMU features Analog fallback so if power is lost audio will still pass through. AES fallback is also available if an AES module is fitted.

The RMU has a SMPTE timecode input which can be used to control an internal clock timer to switch inputs.

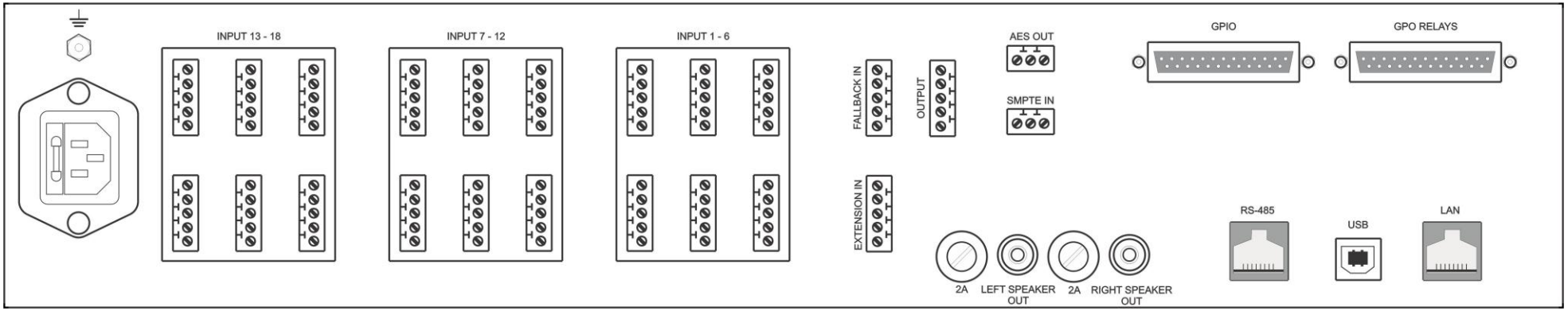
The RMU-01 is suitable for monitoring in a wide range of broadcast monitoring applications in the Control Room, Master Control and at the Transmitter Site.

Not limited to just monitoring the RMU has the capability of being a program switcher with Analog and AES output, and with SMPTE timecode input can be used to switch to required program schedule.

Summary of Features

- Stereo balanced +4dBu input (in group of 6): bridging input
- AES Input (in group of 6): Balanced with switch-able 110ohm termination and loop through
- 1 Stereo balanced output
- 1 AES output – selectable sample rate 48, 96 kHz, 24 bit.
- Selectable VU or PPM Meter: Stereo, 2x 30 segment LED
- Speakers: 2x 30W speakers: full range, high compliance, high power driver
- Phase warning and Left & Right Peak indication
- Reference Level Adjust – 10dB to + 10dB, in 1dB steps
- Monitor Mode selection: monitor Stereo, Left, Right, Mono, Anti Phase
- Front panel headphone socket and volume control, speaker mute
- LCD display: shows input name, status, alarm state, bit rate, select by rotary encoder
- Audio Presence (or AES lock) indicator for each input: LED
- Program Fail indicator for each stereo input: LED
- Audio fallback on power loss, Analog and AES (if fitted)
- SMPTE Timecode input
- Program Fail Alarms for each stereo input: with delay and sensitivity adjust
- GPO Relays 12x Closing Contact Relay
- GPO 16x Open Collector outputs
- GPI 3x Optocoupler 12V
- External Speaker output: 2x 30W
- 2RU rackmount
- RS485 serial port: remote switching
- USB port, type B: programming and remote control
- LAN optional: programming and remote control, stream output

REAR PANEL



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