

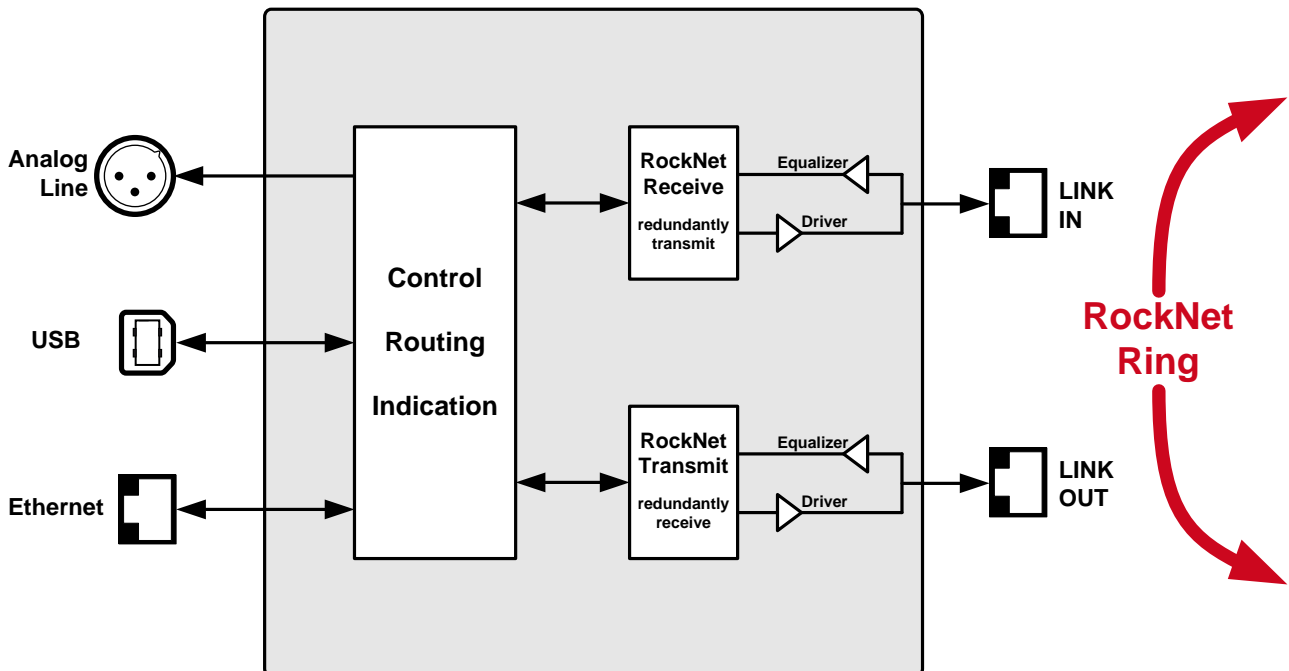
# RockNet RN.302.LO

The RN.302.LO provides 8 analog line output channels on XLR connectors that can drive any amplifier or self-powered speaker to maximum level. Output redundancy is offered to drive a single amplifier from two different RN.302.LO devices. The front panel controls have been designed with full consideration to speedy operation and instant recall required in live situations.

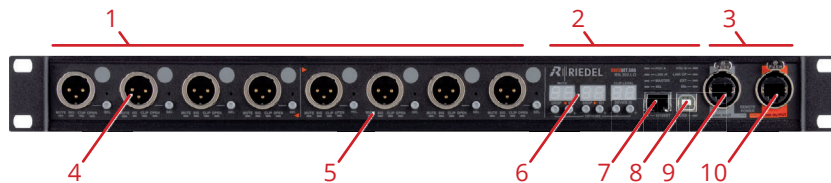


- 8 analog line outputs
- Variable output level (-9dBu to +24dBu in 1dB steps)
- Channel mute
- LED status indicators
- Remote control
  - via remote PC / Mac software RockWorks
  - from digital Yamaha mixing consoles via RN.341.MY and RN.141.MY
  - from digital Soundcraft / Studer mixing consoles via RN.343.VI
  - from digital Soundcraft Compact and Performer consoles via RN.344.SI
  - from digital SSL consoles C10 / C100 via RN.334.MD
- Front panel operation
- CAT5 redundant network interface
- Redundant power supply
- Unique Output Redundancy

## Block Diagram



# RockNet RN.302.LO



## Legend

- 1) Output Section
- 2) Control Section
- 3) Network Section
- 4) XLR output connectors
- 5) LED status indicators
- 6) 3 two-digit displays with 6 push buttons for menu operation
- 7) RJ45 connector for Ethernet Transport
- 8) USB connector for PC Remote Control
- 9) Link Input connector
- 10) Link Output connector

### Status LEDs

	color	off	on	flashing
MUTE	red	Channel active	Channel muted	--
SIG	green	No signal present (< -48 dBFS)	Signal present (> -48 dBFS)	--
CLIP	red	Signal ok (< 0 dBFS)	Signal clipping (> 0 dBFS)	--
OPEN	yellow	No output redundancy prepared	Output circuitry is prepared for redundancy	--
PSU A/B	green	Power Supply not connected or power failure	Power Supply ok	--
LINK IP / OP	yellow	No communication to neighbor device present	Communication and synchronization established	Communication ok but synchronization missing
MASTER	yellow	Device is Sync-Slave	Device is active Sync-Master	Device is passive Sync-Master
EXT	yellow	External Wordclock synchronization disabled	External Wordclock synchronization ok	External Wordclock synchronization failure
48k	yellow	--	48 kHz samplerate selected	--
96k	yellow	--	96 kHz samplerate selected	--
10/100BT	yellow	No Ethernet connection present	Ethernet connection established	--
USB	yellow	No connection via USB present	RockWorks connection via USB established	--
REMOTE POWER	green	Remote Power option failure or not installed	Remote Power option installed and ok	--

### Specifications

Channels	8 output		
Output Format	Analog line		
Max. output Level	+24 dBu	±0.2 dB	@ digital Full Scale, 600 Ω load
Output Level range	+9 ... +24 dBu		
Output Impedance	<1 Ω		
Impedance Imbalance	<1 %		
Mute	Selectable per channel		
Noise	-93 dBu		
Dynamic Range	117 dB @ +24 dBu "A" weighted		
Crosstalk	-130 dB	20 Hz ... 20 kHz	channel-to-channel
Frequency Response	20 Hz ... 20 kHz	-0.1 dB	@ 48 kHz Sample Rate
	20 Hz ... 40 kHz	0.5 dB	@ 96 kHz Sample Rate
Common Mode Rejection Ratio	>72 dB	@ 84 dB Gain	0 dB In, 50 Hz ... 15 kHz, 20 kHz BW, 2x300 Ω Source
Total Harmonic Distortion	0.001 %	@ +24 dBu Out	100 Hz ... 10 kHz
	0.002 %	@ +4 dBu Out	600 Ω load, 20 kHz BW
Level Indicators	Signal, Clip		
Resolution	24 Bit		
Sample Rate	48 kHz, 96 kHz		
Delay	256 μs @ 48 kHz Sample Rate		
USB Port	USB 1.1/2.0 compatible		
Ethernet Port	10 BaseT / 100 BaseT		
Wordclock In	TTL / high impedance		
Wordclock Out	TTL / low impedance		

### Overall

Environmental Temperature	0 °C to +50 °C (Non-condensing)		
Supply Voltage	100 ... 240 VAC / 47 ... 63 Hz		
Power Consumption	40 VA		
Dimensions (w×h×d)	483 mm × 44 mm (1RU) × 200 mm		
Weight	3 kg		