

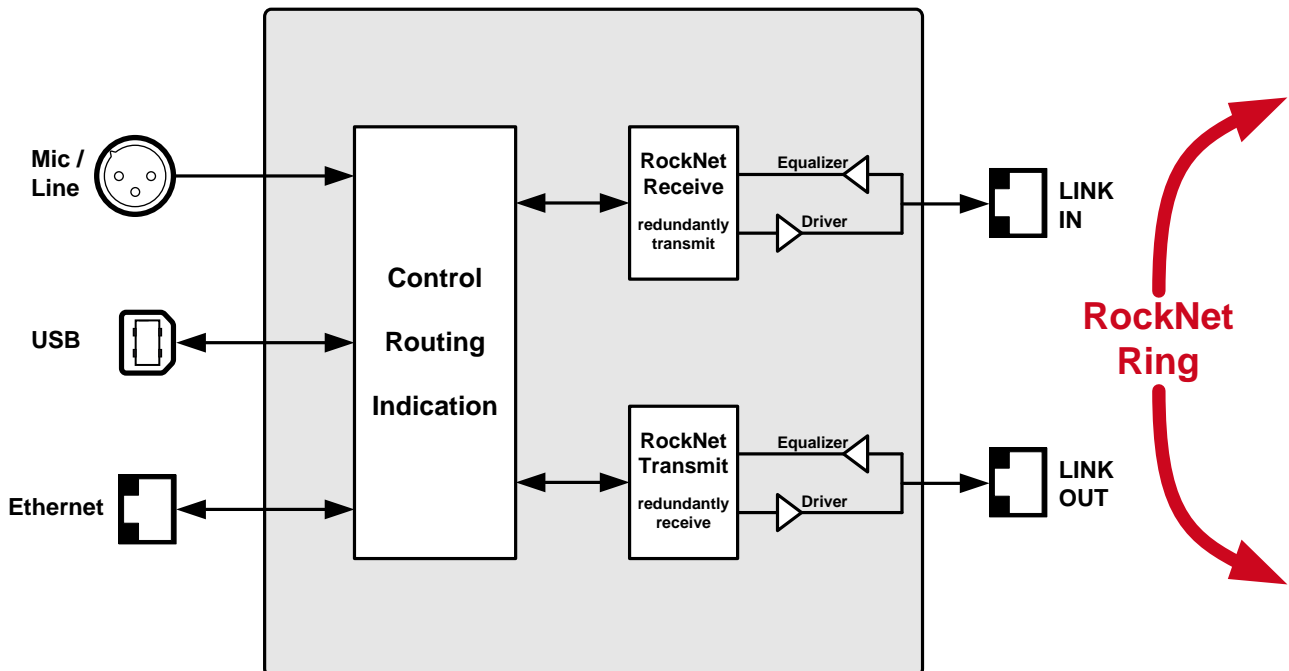
RockNet RN.301.MI

The RN.301.MI provides eight remote controllable combined microphone line inputs on XLR connectors. The state of the art circuitry is designed to fulfill the highest demands in dynamic range, common mode rejection and overall audio quality. The front panel controls have been designed with full consideration to speedy operation and instant recall required in live situations.



- 8 microphone and line inputs
- Gain range 90dB (-6dB to +84dB in 1dB steps)
- 48V PHANTOM power
- 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

Block Diagram



RockNet RN.301.MI



Legend

- 1) Input Section
- 2) Control Section
- 3) Network Section
- 4) XLR input 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)	--
48V	yellow	PHANTOM power is switched off	+48V PHANTOM power is switched on	--
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 input		
Input Format	Analog line or microphone		
Gain range	-6 ... 84 dB	150 Ω Source	
Gain step	1 dB	±1 dB	
Sensitivity	-42 dBu ... +30 dBu	max. before clip	
Max. input Level	+30 dBu		
Input Impedance	5 kΩ		
Phantom Power	+48 V	selectable per channel	
Equivalent Input Noise (EIN)	-122 dBu	@ 30 dB Gain	150 Ω Source, 20 kHz B/W
	-126 dBu	@ 84 dB Gain	
Dynamic Range	119 dB	@ Gain = -6 dB	
Frequency Response	20 Hz ... 20 kHz	-0.1 dB	@ 48 kHz Sample Rate
Common Mode Rejection Ratio	>80 dB	@ 84 dB Gain	0 dB In, 50 Hz ... 15 kHz, 20 kHz BW, 150 Ω Source
Crosstalk	-132 dB	20 Hz ... 20 kHz	channel-to-channel
Total Harmonic Distortion + Noise	0.006 %	@ 66 dB Gain	-42 dBu In, 100 Hz ... 10 kHz, 20 kHz BW, 150 Ω Source
Level Indicators	Signal, Clip		
Resolution	24 Bit		
Sample Rate	48 kHz, 96 kHz		
Delay	373 μs	@ 48 kHz Sample Rate	
USB Port	USB 1.1/2.0 compatible		
Ethernet Port	10 BaseT / 100 BaseT		
Wordclock In	TTL / high impedance		BNC connectors on the rear side
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