

MediorNet MicroN

MediorNet MicroN The 80G Media Distribution Network

The MediorNet MicroN system provides video and audio ports for smallest rack space. In combination with MediorNet MetroN the units are a solution for large sized Media Networks. Directly connected to each other, the units are an economic solution for small to medium sized networks. The units are fully compatible to all other MediorNet devices.



Main System Characteristics

- Compact 1RU Design for rackmount applications
- Integrated Video, Audio and Data Router
- 10G Highspeed Links
- Sync Reference Input and Output (BB, Tri-Level, WC)
- 3G-SDI video, MADI audio, Gigabit Ethernet ports
- Redundant Wide Range AC Power Supply
- Temperature Monitoring and adaptive Fan Control
- 160 x 49 px color OLED Display

Video and Audio Processing Features

- Automatic Format Detection
- Frame Synchronizer & Framestore on all Video outputs
- 16 Channel Audio Embedder / De-Embedder
- Test Pattern Generator
- On Screen Display (OSD)
- System VITC Display
- Built-in Sample Rate Converter
- Audio and Video Delay Lines

Signal Inputs and Outputs

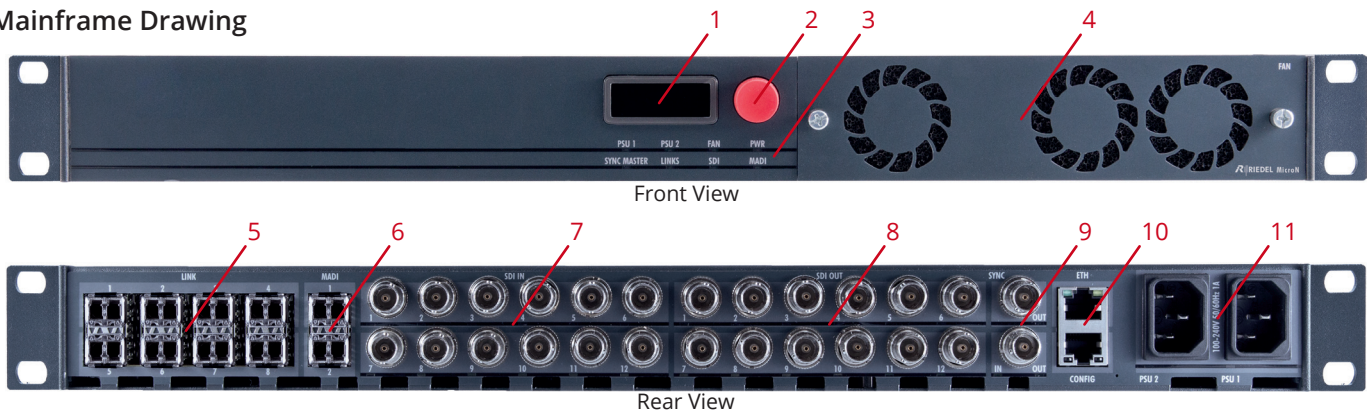
- 12× SD/HD/3G-SDI Video Inputs
- 12× SD/HD/3G-SDI Video Outputs
- 2× MADI Digital Audio Ports (Optical)
- 1× Gigabit Ethernet Port
- 1× Sync Reference Input/Output (switchable)
- 1× Sync Reference Output
- 8× 10G SFP+ Highspeed Ports

User Interface (on the front side)

- OLED display with 2 integrated buttons (left, right)
- Rotary encoder with push-button
- LED indicators for
 - PSU status
 - Fan status
 - Sync master

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Mainframe Drawing



Legend

- | | | | |
|------------------------|---------------|---------------------|----------------------------|
| 1) Display | 4) Fans | 7) SDI Input Ports | 10) Config / Ethernet Port |
| 2) Incremental Encoder | 5) Link Ports | 8) SDI Output Ports | 11) Dual Power Connector |
| 3) Status LEDs | 6) MADI Ports | 9) Sync Ports | |

Technical Specifications

Bi-Directional Ports

MADI	Multi Channel Digital Audio as per AES 10-2003 48 / 96 kHz Channel Modes 56/64 ch @ 48 kHz, 28/32 ch @ 96 kHz Resolution 24 Bit
Ethernet	1000BASE-T, 100BASE-T (full duplex only), 10BASE-T (full duplex only) RFC 2544 Compliant Jumbo Packet Support

Inputs

SDI-Video	75 Ω SD/HD/3G Serial Digital with embedded Audio (4 groups)
Input Standards	1.5 Gbps HD-SDI SMPTE292M, 3 Gbps 3G-SDI SMPTE424M/425M Level A – mapping structure 1, SMPTE425M Level B 270 Mbps SD-SDI SMPTE259M, DVB-ASI SMPTE259M/EN50083
Cable Equalization	> 230m @ 1,5Gbps, > 140m @ 3Gbps, >250m @ 270Mbps (Belden 1694A)
Sync Reference Formats	Blackburst NTSC/PAL (incl. VITC), Tri-Level 720p 50/59/60, Tri-Level 1080i 50/59/60, Tri-Level 1080p 23/24/25/29/30, Wordclock 48/96/192kHz

Outputs

SDI-Video	75 Ω SD/HD/3G Serial Digital with embedded Audio (4 groups)
Output Standards	1.5 Gbps HD-SDI SMPTE292M, 3 Gbps 3G-SDI SMPTE424M/425M Level A – mapping structure 1, SMPTE425M Level B 270 Mbps SD-SDI SMPTE259M, DVB-ASI SMPTE259M/EN50083
Sync Reference Formats	Blackburst NTSC/PAL (incl. VITC), Tri-Level 720p 23/24/25/29/30/50/59/60, Tri-Level 1080i 50/59/60, Tri-Level 1080p 23/24/25/29/30, Wordclock 48/96/192kHz, VITC ON/OFF Selectable on Blackburst Outputs

Overall

Environmental Temperature	-5 °C to +45 °C (Non-condensing)
Supply Voltage	100 ... 240 VAC, 50 / 60 Hz
Power Consumption	50 W
Cooling	6 Redundant Speed Controlled Fans, Front to Rear Airflow
Dimensions (w×h×d)	483 mm (19") × 44 mm (1 RU) × 241 mm
Weight	5.1 kg