Linking People Together

MUX-22-CC

High performance, low-latency signal transport solutions for transporting, routing and distributing audio, video, intercom and control data.

Key Features and Benefits

- Seamless transport of audio, video, intercom, and control data
- Full integration into SANE, DiViNe- and Optocore network
- SD/HD/3G-SDI capacity
  - 8 SD/HD/3G-SDI ports
  - 4 simplex LC fiber ports
- CWDM module
- Tri/Bi-level video clock input and output module
- Optocore module
  - 2 x Optocore 2Gbps ports
  - 2 x SANE/LAN ports
  - 2 x LAN ports
  - 4 x RS485/422 ports
  - Word Clock I/O
- Redundant power supplies
- Full control with ProGrid control software
- LAN, USB and RS232 ports for configuration
- Upgradeable internal logic
- Comprehensive front panel status indicators

Description

The MUX-22 Series is a group of fiber interfaces that distribute multiple professional video and audio signals, such as SD/HD/3G-SDI over the same optical fiber. The panels have 8 SD/HD/3G-SDi coaxial video inputs or outputs, a Coarse Wavelength Division Multiplexing (CWDM) module, and 4 video inputs, 4 video outputs and 4 4-wire RJ45 matrix ports.

Connectivity

The MUX-22 Series seamlessly multiplexes with ProGrid audio and data transport devices. Audio and control data from Clear-Com user panels or matrices are sent transparently through the optical fiber network. Each intercom channel can be routed to and from every device on the network using the Optocore Control software. The devices can also be used with other Broaman units as part of a larger routing solution. The Tri/Bi-level video clock input and output module allows the output to be derived from any source in the system.

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Technical Specifications

Intercom Ports

Connector: 4-wire Clear-Com standard; 4 x input, 4 x output

RJ45, Clear-Com intercom or RTS intercom

Optical Link

Connection: Duplex LC

Protocol: Optocore

Transmission: Full Duplex

Fiber Cable Lengths:

Standard singlemode transceiver ≥10 km

Special singlemode transceiver ≥ 80 km (on request)

SANE, LAN Ports

Audio: TIA – 568A/B, Optocore; 200 Mbit/s

LAN: TIA – 568A/B, IEEE - 802.3;

10/100 Mbit/s

Auxiliary Ports

Convention: EIA / TIA-485

Data Channels: Digital control data; 4

Data Rate: Up to 10 Mbps

Impedance

Termination: 330 Ω

Source: ≤ 10 Ω

Video

Standards: SD, ED, HD, Dual Link, 3G

Complies with SMPTE: 259M, 292M, 344M, 372M, 424M

Interface: SDI – Serial Digital Interface

Word Clock

Hardware Standard: BNC – 75 Ω

Data Rate: Dependent on sample rate; Up to 192 kHz

Impedance: Output ≤ 5, Ω Input 75 Ω

Drive Level: Output; ≥ 1 Vpp

Zero Level: Referring to GND; +1.7 V

Sense Level: Input; ≥ 400 mVpp

Optical Connection

Complies with 21 CFR 1040.10 and 1040.11

Remote Control

RS232: EIA / TIA – 232; 57 600 Baud

USB: USB 2.0 – Device; 12 Mbit/s

LAN: IEEE – 802.3; 10/100 Mbit/s

Power Supply

Type: Switch-mode, universal input

Main Voltage: 100-240 V; 50-60 Hz

Frequency: 50-60 Hz

Cooling: Passive, via surface and ventilation openings on both sides of the device

Dimensions
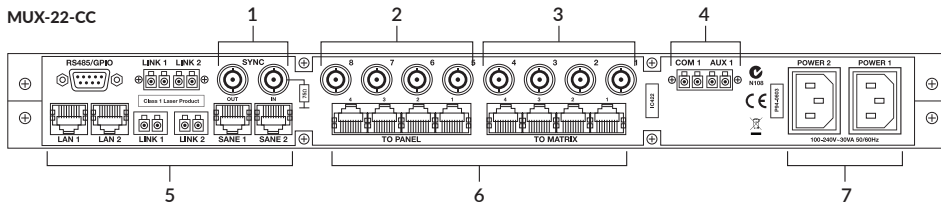
1.73 x 19 x 8.87 in (HxWxD)
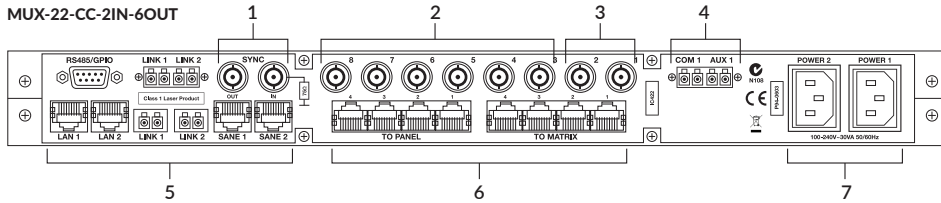
(44 x 483 x 200 mm)

Weight

6.6 lbs (3.0 kg)

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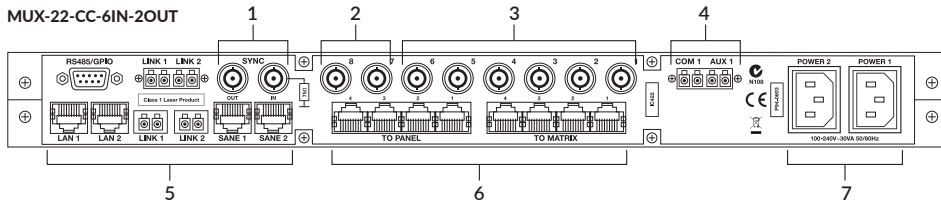## MUX-22-CC Back Panels
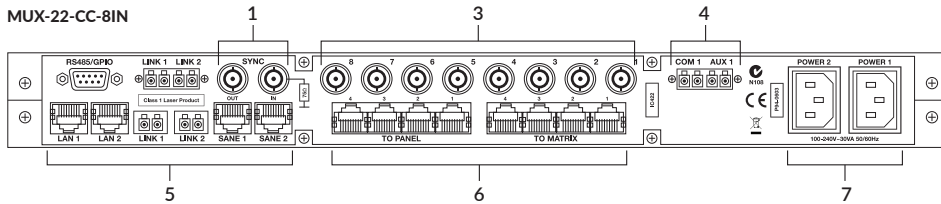
MUX-22-CC

MUX-22-CC-2IN-6OUT

MUX-22-CC-6IN-2OUT

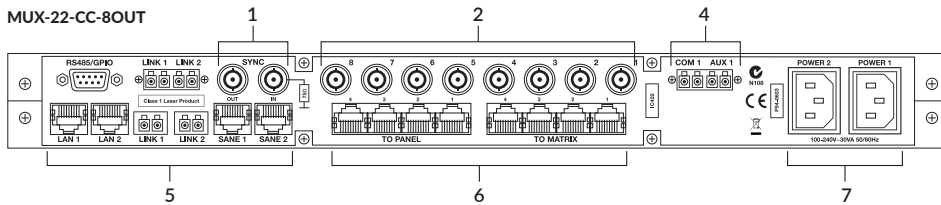**MUX-22-CC-8IN**

MUX-22-CC-8OUT

Legend

Back Panels

1. SYNC
2. 3G/HD/SD SDI OUT
3. 3G/HD/SD SDI IN
4. CWDM AUX + COM
5. Optocore Module
6. 4-wire Clear-Com Intercom
7. Dual PSU
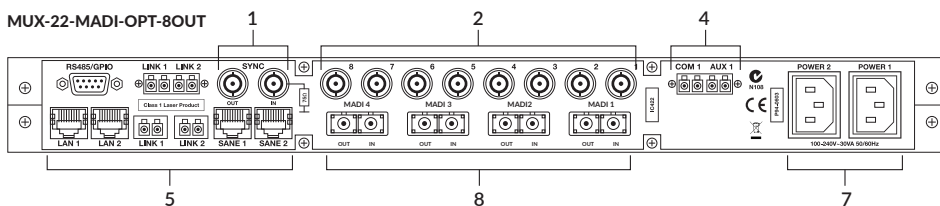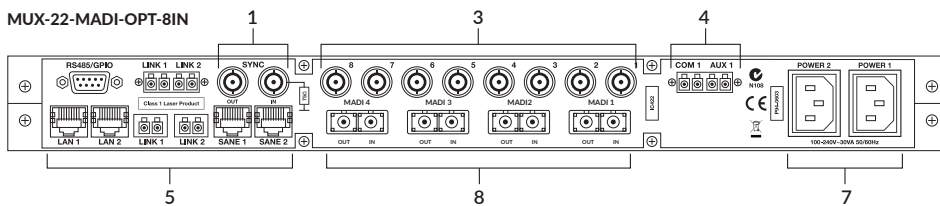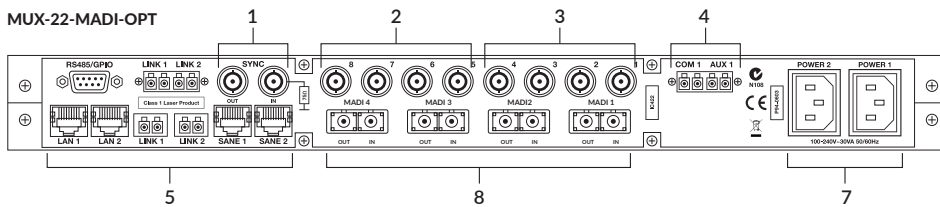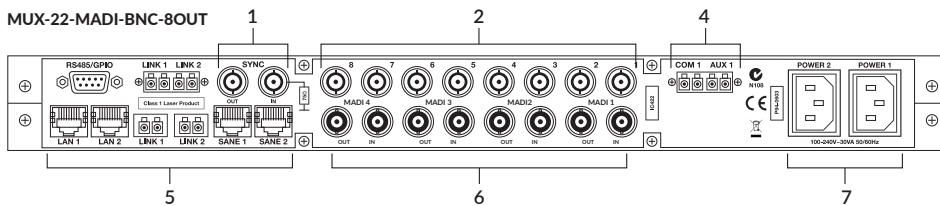
Order Codes

MUX-22-CC
MUX-22-CC-2IN-6OUT
MUX-22-CC-6IN-2OUT
MUX-22-CC-8IN
MUX-22-CC-8OUT

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MUX-22-MADI Back Panels

MUX-22-MADI-BNC

MUX-22-MADI-BNC-8IN

MUX-22-MADI-BNC-8OUT

MUX-22-MADI-OPT

MUX-22-MADI-OPT-8IN
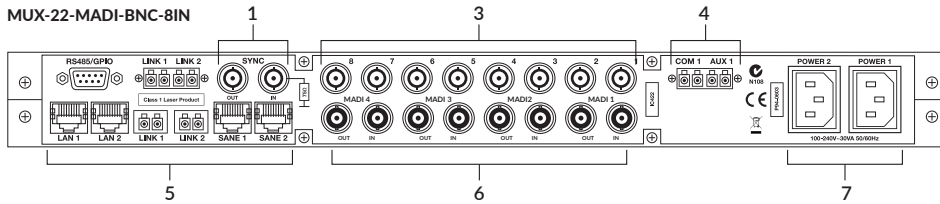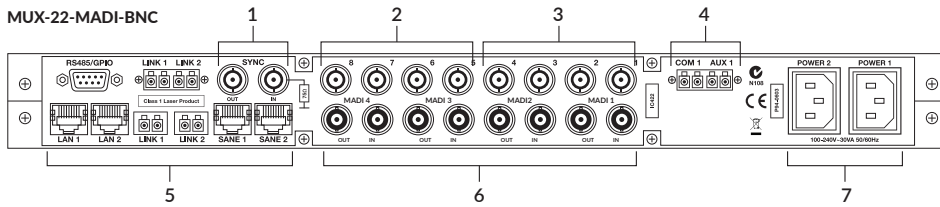
MUX-22-MADI-OPT-8OUT

Legend

Back Panels

1. SYNC
2. 3G/HD/SD SDI OUT
3. 3G/HD/SD SDI IN
4. CWDM COM + AUX
5. Optocore Module
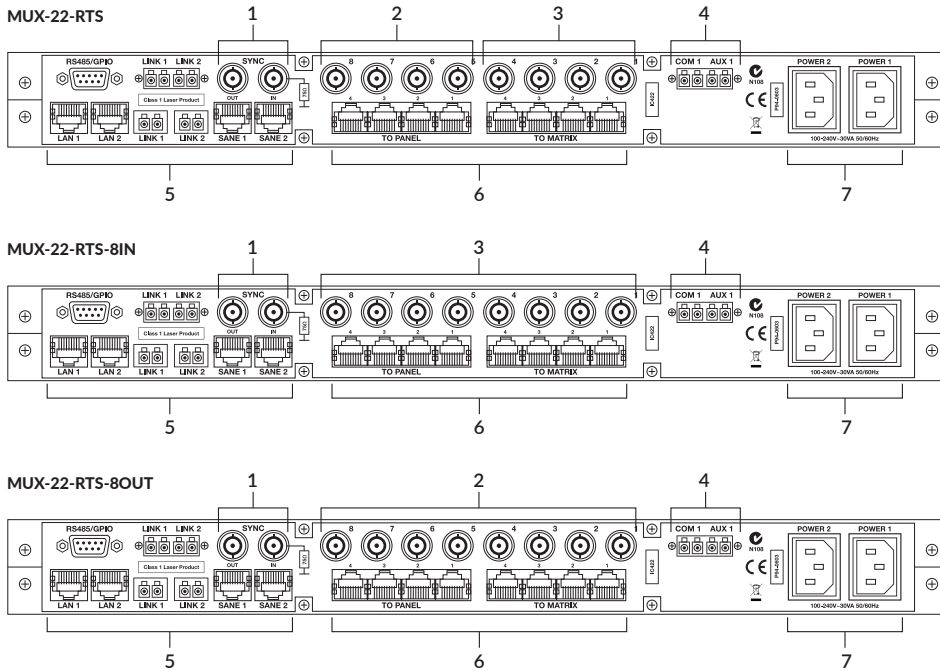6. 4 x Dual BNC MADI
7. Dual PSU
8. 4 x Duplex Fiber MADI

Order Codes

MUX-22-MADI-BNC
MUX-22-MADI-BNC-8IN
MUX-22-MADI-BNC-8OUT
MUX-22-MADI-OPT
MUX-22-MADI-OPT-8IN
MUX-22-MADI-OPT-8OUT

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MUX-22-RTS Back Panels

MUX-22-RTS

MUX-22-RTS-8IN

MUX-22-RTS-8OUT

Legend

Back Panels

1. SYNC
2. 3G/HD/SD SDI OUT
3. 3G/HD/SD SDI IN
4. CWDM AUX + COM
5. Optocore Module
6. 4-wire RTS Intercom
7. Dual PSU

Order Codes

MUX-22-RTS

MUX-22-RTS-8IN

MUX-22-RTS-8OUT

Notice About Specifications | While Clear-Com makes every attempt to maintain the accuracy of the information contained in its product manuals, that information is subject to change without notice. Performance specifications included in this manual are design-center specifications and are included for customer guidance and to facilitate system installation. Actual operating performance may vary.