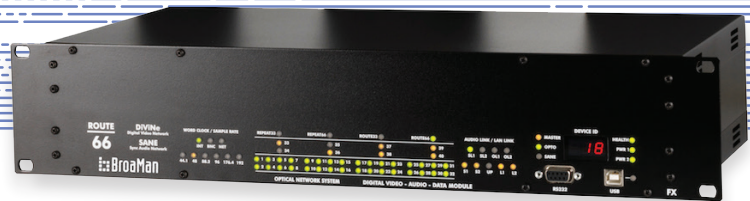


Linking
People
Together



Route66

Key Features and Benefits

- 40x40 optical multiplexer using CWDM or DWDM to single-fiber I/O ports
- Up to 24 BNC-SDI ports for 3G/HD/SD video input or output with or without re-clockers
- Up to 20 additional general protocol-independent duplex LC fiber ports
- Up to 36 general protocol-independent simplex LC fiber ports
- Protocol Independence for routing 1G Ethernet, SMPTE311m camera feeds, intercom, MADI, Optocore signals and 3rd-party digital audio at the same time on the same device
- Compatible with MUX-22 Series and Repeat48 Series for distributed transport solutions
- Optional Route66 will automatically patch assigned channels to 5, 10, or 20 satellite stageboxes

High performance, very low-latency, protocol-independent, transport solutions for transporting, routing and distributing video together with audio intercom and control data.

Description

The Route66 Series are fiber interfaces that routes multiple professional video and audio signals, such as SD/HD/3G-SDI over the same optical fiber. The 2RU interface has a 40x40 optical MUX and router for up to 24 BNC-SDI 3G/HD/SD video ports, up to 20 duplex or 36 simplex protocol-independent LC fiber ports. The Route66 also features a VSync board with selectable synchronization formats from Word, BB and Tri-level.

Connectivity

The Route66 routes inputs from 3rd-party video or from fiber from other BroaMan devices, such as MUX-22 Series or Repeat48 Series, under user control. The protocol independence provides for full flexibility and as Route66 Series interfaces do not code or decode the signals, the latency is near zero.

Route66 interfaces also include an Optocore card with a fast Ethernet switch, Optocore fiber links and selectable RS422/485 or GPIO interface.

One Route66 AutoRouter can transform Optocore rings, ProGrid or DiGiCo rings into intelligent star with automatic stream patch – it closes the optical loop automatically depending on connected ports. From 5 to 20 locations, Route66 AutoRouter enables connection of satellite devices or rings to create one large ring. It is equipped with 10 multimode TRX. Redundant PSUs included.

Technical Specifications

Optical Link

Connection: Duplex LC

Protocol: Independent (no restriction)

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

Fiber Duplex LC 1310nm fiber tunnel Protocol:

Independent (no restrictions)

Data Port

Data Channels: Digital control data; 4

Data Rate: Up to 10 Mbps

Impedance

Termination: 330 Ω

Source: $\leq 10 \Omega$

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 $\leq 5 \Omega$ 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
Dual Redundancy

Dimensions

3.46 x 19 x 7.87 in (HxWxD)

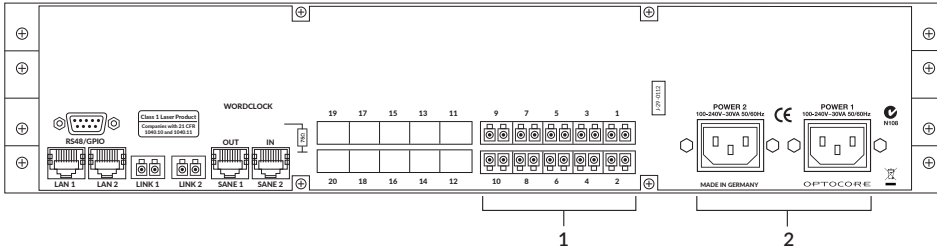
(88 x 483 x 200 mm)

Weight

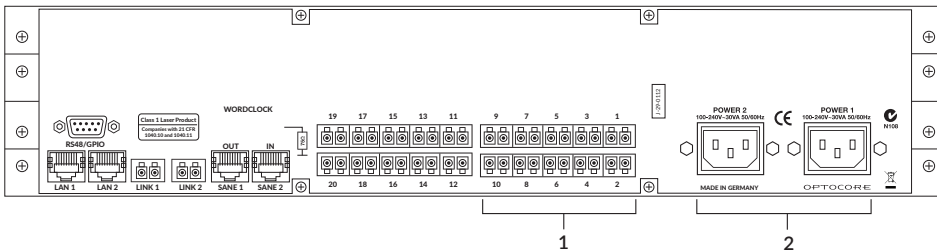
Dependent on configuration

Back Panels

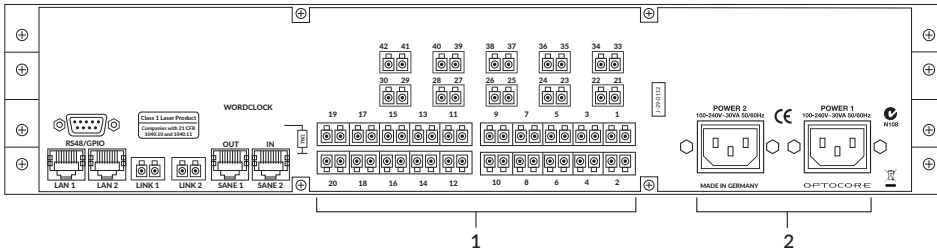
Route66 - AUTO 5



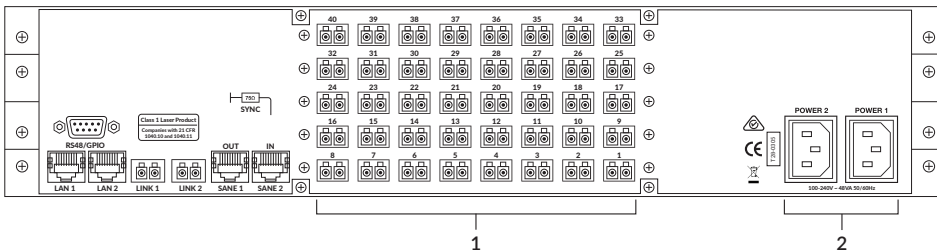
Route66 - AUTO 10



Route66 - AUTO 15



Route66 - AUTO 20



Legend

Back Panels

1. Duplex Optocore AutoRouting Ports
2. Dual PSU

Order Codes

Route66-AUTO-5
Route66-AUTO-10
Route66-AUTO-15
Route66-AUTO-20