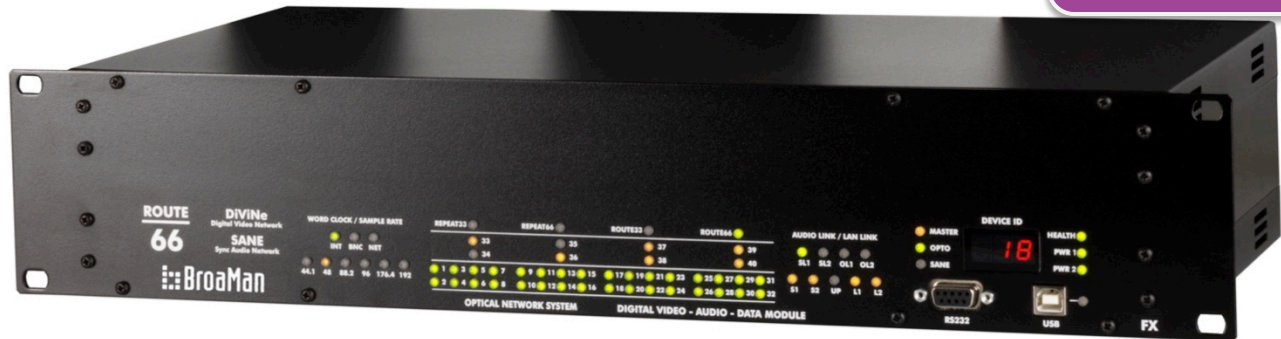


BroaMan Route66

3G/HD/SD-SDI Video Router/Repeater/Converter
with OPTOCORE and SANE

Customised
Video & Audio
Device



Product Features

- **Capable of routing up to 66 signals**

2RU frame with capacity of:

- 24 SD/HD/3G-SDI ports
- 20 duplex LC fibre ports
- 36 simplex LC fibre ports

- **SD/HD/3G-SDI port options**

- Input with adaptive EQ
- Input with reclocker
- Output
- Output with reclocker
- Switchable I/O
- Genlock

- **Optional CWDM modules**

- **Optocore module**

- 2 x Optocore 2Gbps ports
- 2 x SANE ports
- 2 x LAN ports
- 4 x RS485/422 ports
- Word Clock I/O

- **Modular hardware design**

- **Automated routing or control using a third party controller**

- **Redundant power supplies**

- **LAN, USB and RS232 ports for configuration**

- **Upgradeable internal logic**

- **Comprehensive front panel status indicators**

DiViNe, the Digital Video Network technology developed by BroaMan, provides scalable, protocol independent, routing, repeating, transport and distribution of multiple professional video signals, such as SD/HD/3G-SDI, over optical fibre.

Complete BroaMan systems are built from a collection of modules that include; coaxial and optical I/O, routers, repeaters, and optical multiplexers. Using the modular BroaMan building blocks, any system configuration can be realized.

BroaMan systems are specified and built to provide an application engineered solution, tailored to the requirements of the customer. The modular nature of BroaMan paves the way for construction of fully cost optimized systems.

The cornerstones of BroaMan systems is the Route66. The device is capable of 66 channels of routing, signal repeating, as well as conversion to and from electrical to optical.

Route66 devices can be customized to meet the most sophisticated requirements.

Route66 is protocol independent and can be used to route and repeat signals such as 3G/HD/SD-SDI, MADI, Optocore as well as optical signals from third party converters.

Route66 can be equipped with video clock output modules. The clock outputs are derived from a synchronized video source in the system.

Route66 is equipped with an Optocore FX module. The low latency, synchronous, Optocore network provides the capability of transporting, and patching, up to 1024 audio inputs into thousands of outputs over a redundant network. Additionally, the Optocore FX module includes 64 channel SANE audio ports on Cat5, 4 RS485/422 ports, 100Mbit Ethernet switch and a Word Clock input and output.

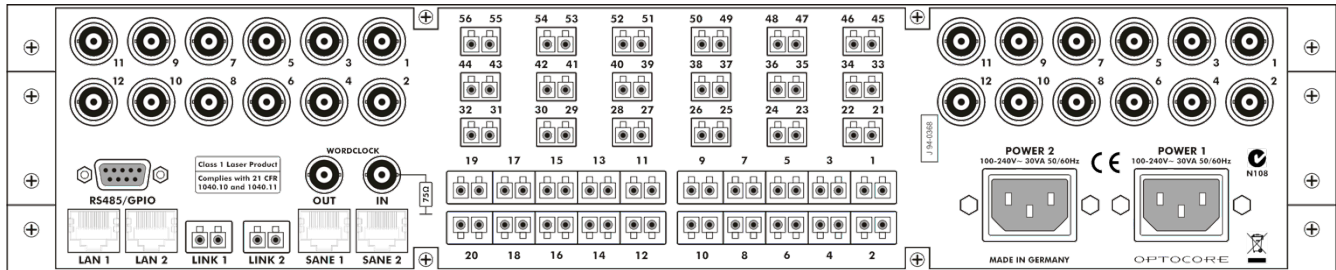
Route66 devices can be configured as switched or automatic Optocore routers, providing the capability to build Optocore networks in star topology or as a mixture of ring- and star topology.

Route66 is populated with routers, I/O and multiplexers at the time of manufacturing, according to customer's specifications.

Route 66 can be controlled by an external controller or by using automated routing, according to customer's specifications.

Route66 is equipped with a built-in redundant power supply with an automatic switchover.

Line Drawings



Technical Specifications

| Video | |
|---------------------|--------------------------------|
| Standards | SD, ED, HD, Dual Link, 3G |
| Complies with SMPTE | 259M, 292M, 344M, 372M, 424M |
| Interface | SDI – Serial Digital Interface |

| Optical Connection | Complies with 21 CFR 1040.10 and 1040.11 |
|--------------------|--|
|--------------------|--|

| SANE, LAN | Convention | |
|-----------|----------------------------|---------------|
| Audio | TIA - 568A/B, Optocore | 200 Mbit/s |
| LAN | TIA - 568A/B, IEEE - 802.3 | 10/100 Mbit/s |

| Word Clock | Hardware standard BNC - 75 Ω | |
|-------------|-------------------------------------|------------------------|
| Data rate | Depending on selected sample rate | Up to 192 kHz |
| Impedance | Output | Output $\leq 5 \Omega$ |
| | Input | Input 75 Ω |
| Drive level | Output | $\geq 1 V_{pp}$ |
| Zero level | Referring to GND | + 1.7 V |
| Sense level | Input | $\geq 400 mV_{pp}$ |

| Remote Control | Convention | |
|----------------|------------------|---------------|
| 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 |
| Mains voltage | 100... 240 V |
| Frequency | 50 60 Hz |
| Power consumption | Depending on the configuration of the device, 32VA - Max |
| Security classification | Class 1: basic insulation, connected to the protective grounding conductor |
| Security regulations | Harmonised European standard EN60065 |
| Mains connector | acc. to IEC-950 |
| Cooling | Passive, via surface and ventilation openings on both sides of the device |

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