



BroaMan Route66

3G/HD/SD-SDI VIDEO ROUTER/REPEATER/CONVERTER WITH OPTOCORE AND SANE

BroaMan (Broadcast Manufacturer), the German-based broadcast network specialist provides scalable, protocol independent, routing, repeating, transport and distribution of multiple professional video signals, such as 12G/3G/HD/SD-SDI, over optical fibre.

ARCHITECTS & ENGINEERS SPECIFICATION FOR THE ROUTE66 UNIT

The device shall be a 2RU device, capable of scalable, protocol independent, routing, repeating, transport and distribution of multiple professional audio and video signals, such as OPTOCORE, MADI, SD/HD/3G-SDI, over optical fiber. All of the following signals can be handled depending on the configuration: OPTOCORE, MADI, 3G/HD/SD. The Route66 is capable of routing, repeating and converting up to 66 channels of 3G/HD/SD. The device shall be compatible with the following video standards: SD, ED, HD, Dual Link, 3G, ASI, MADI, SMPTE, 259M, 292M, 344M, 372M, 424M, and interface shall be SDI - Serial Digital Interface. The device shall be configured with up to 40 LC fiber ports as required. The 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.

The Optical connection shall comply with 21 CFR 1040.10 and 1040.11. The device shall be configured, operated and monitored using the OCS software, the device can also be controlled by an external controller or by using automated routing as per requirements.

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.

The whole system shall support redundancy for connected devices. Redundant power supply and safeguards against malfunctions shall be provided through a dual power supply unit with automatic switchover. The front panel shall provide LEDs indicating signal presence on each port as well as LEDs for status of the power supplies. The module shall be compliant with the CE/FCC conformity and shall be used in E1, E2, E3, E4, or E5 environments according to the harmonized European standards EN55103-1 and EN55103-2. The device shall be compliant with EN60065 - Safety requirements.

The video routing device module shall be the BroaMan® Route66