

BroaMan Mux22-IVT/IVT

3G/HD/SD-SDI video I/O unit with built-in CWDM module and data



Product Features

- 3G/HD/SD-SDI capacity
 -16 3G/HD/SD-SDI ports
- 3G/HD/SD-SDI modules
 - Dual Input with adaptive EQ
 - Dual Output
 - Reclocker for each input or output

- All modules with or without redundancy

- Built-In CWDM module
- Fiber auxiliary ports for 3rd party devices and protocols
- Full integration into SANE and Optocore network
- Optocore module with 2 LAN ports and 2 SANE/LAN ports
- RS485 or GPIO or RS422 optional ports
- Tri/Bi-Level sync with Word Clock
- Redundant power supplies
- Full control with Optocore control software

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

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 realised.

BroaMan systems are built around three main product series – Repeat48, MUX-22 and Route66. Repeat48 series offers basic E-O-E conversion as well as fiber multiplexing. The MUX-22 series is a flexible and small-sized redundant video, audio, data transport and basic routing platform. Route66 enables customisable routing solutions as well as E-O-E conversion and multiplexing.

The MUX-22 IVT/IVT can be used as a video and data (Ethernet, RS485/422 or GPIO) device with 16 3G/HD/SD video ports configured with the required number of inputs and outputs in group of two.

The Tri/Bi-level video clock input and output module can be installed in the device on request. The output can be derived from any source in the system.

The MUX-22 seamlessly integrates into the OPTOCORE OPTICAL DIGITAL NETWORK SYSTEM. Analogue or digital audio can be interfaced and sent transparently through the optical network together with video, Ethernet and serial data. Each audio and data channel can be routed to and from every device on the network using the OPTOCORE CONTROL software. The software also enables the monitoring of video signals displaying the status of each SFP built into the device.

The MUX-22 is equipped with a CWDM modules with auxiliary fiber ports to allow for connection of external fiber systems, such as Optocore, to the CWDM module. All video and data channels can be multiplexed onto a single fiber. MUX-22 is populated with SDI I/O and multiplexers at the time of manufacturing, according to customer's specifications.

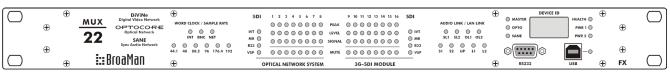
MUX-22 is equipped with a built-in redundant power supply with an automatic switchover. All fiber links can be delivered as redundant with an automatic switchover in case of fiber failure.

MUX-22 units can be used in multiple different applications, starting from a very simple point-to-point links between OB truck and remote location. MUX-22 can also be used in a redundant ring topology or with BroaMan Route66 units, as a part of large routing solution.

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Line Drawings

Front panel



Back panel

÷	RS485/GPIO					POWER 2 POWER 1	÷
÷	LAN 1 LAN 2	Class 1 Laser Product				100-240V- 30VA 30/60Hz	•

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				
Connection	LC				
Data rate	Dependent on the Video data rate – no bandwidth restriction				
Fiber cable lengths	Standard singlemode transceiver	≤ 10 km			
	Special singlemode transceiver	≤ 80 km (on request)			
SANE, LAN ports	Convention				
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			
Word Clock	Hardware standard BNC - 75 Ω				
Data rate	Dependent on sample rate	Up to 192 kHz			
Impedance	Output	Output ≤ 5 Ω			
	Input	Input 75 Ω			
Drive level	Output	≥ 1 Vpp			
Zero level	Referring to GND	+ 1.7 V			
Sense level	Input	≥ 400 mV _{pp}			
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					
Туре	Switch-mode, universal input				
Mains 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 RU / 19"				
WxHxD	19.0 x 1.73 x 7.87 inch				
Weight	Dependent on configuration				

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