



## BroaMan Mux-22

12G/3G/HD/SD-SDI VIDEO I/O UNIT WITH BUILT-IN CWDM MODULE, ANALOGUE OR DIGITAL AUDIO I/O AND DATA

BroaMan (Broadcast Manufactur), the Germany-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 MUX22 UNIT

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The device shall be a 1RU device, capable of converting multiplexing and/or de-multiplexing using a built-in Coarse Wave Division Multiplexing (CWDM) into a duplex singlemode fiber port. All of the following signals can be transported depending on the configuration: 12G/3G/HD/SD, Ethernet, RS485/422 or GPIO, Analog or digital MADi, AES/EBU, or Intercom for Clear-Com or RTS, generic IP based intercom. It shall comply with the following video standards: SD, ED, HD, Dual Link, 3G, ASI, MADi and the following SMPTE standards: 259M, 292M, 344M, 372M, 424M. The interface shall be SDI - Serial Digital Interface. There shall be a selection of configurations based on the aforementioned options. Up to 16 channels of 12G/3G/HD/SD or 8 channels of the same with any one of 8 channels of analog audio, 4 digital MADi port (Optical or BNC) or any of the intercom boards. Connectivity to the other device shall have 4 LC ports mounted as well as up to 4 AUX passive LC ports for additional tunneling features. Optical connection shall comply with 21 CFR 1040.10 and 1040.11. The device shall natively work via a singlemode fiber transport system. Device shall not require user configuration or operation and shall work as a Plug-and-Play system in some configurations, or required software configuration in other, all the while maintaining monitoring capabilities through the OCS (Optocore Control Software).

The entire 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 device can be configured for redundancy via 2 duplex singlemode fiber transport system on request. 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 point-to-point system converter device module shall be the BroaMan® Mux22.