



# BroaMan Repeat48WDM

12G/3G/HD/SD-SDI VIDEO / MADI REPEATER  
WDM CAPABLE

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 REPEAT48WDM UNIT

---

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. There shall be a selection of configurations based on the aforementioned options. Up to 24 channels of 12G/3G/HD/SD. The device shall be compatible with the following video standards: SD, ED, HD, Dual Link, 3G, ASI, MADI, and the following SMPTE standards: 259M, 292M, 344M, 372M, 424M. Interface shall be SDI - Serial Digital Interface. The channel count shall be configured in steps of 2, at a minimum of 2 inputs/outputs up to 24 inputs/outputs. Mixed input and output configuration shall be provided as required. The device shall be available in two formats, a 12-channel and 24-channel version. 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.

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 standard 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® Repeat48WDM.