

## BroaMan MUX-22-CC

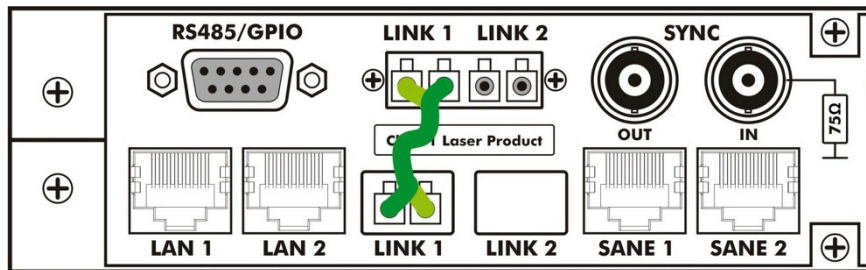
A pair of units providing bi-directional fiber transmission of 4 x 3G-SDI, 4 x Clear-Com INTERCOM ports, 4 x GPIO, 4 x LAN and SYNC

This Quick Start Guide describes all main features of the MUX-22-CC pair and describes how to connect system in a few steps.

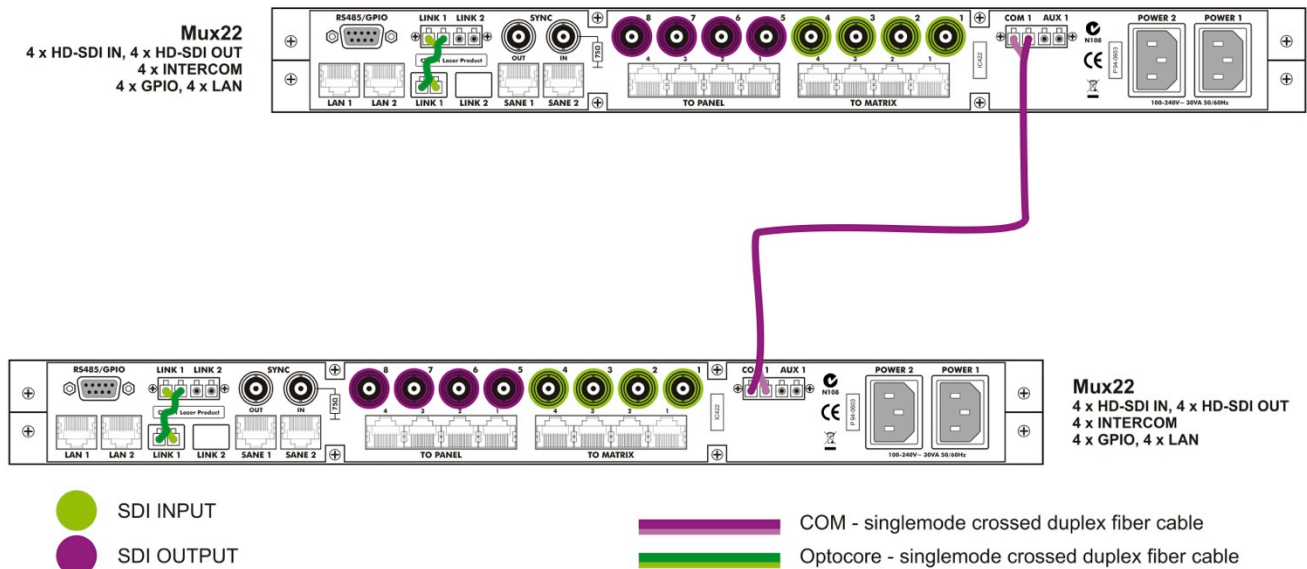
### CABLE CONNECTION

BroaMan MUX-22-CC set is delivered as preconfigured point-to-point set which consists of two devices. It requires only a proper cable connection to start working with the system. After unpacking the devices please follow the steps:

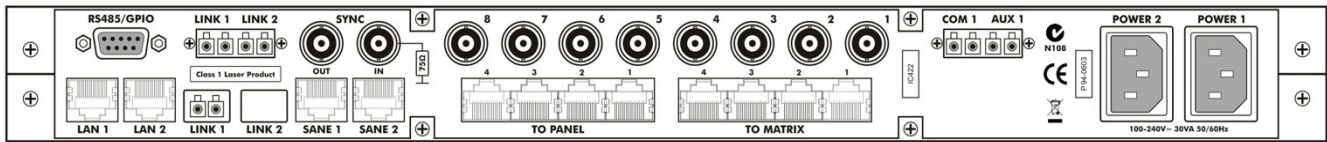
1. Connect crossed duplex singlemode fiber cable locally on each device – from Link 1 transceiver to Link 1 coupler (this connection enables integration of Optocore board, which provides intercom and data connectivity, into the COM fiber)



2. Connect crossed duplex singlemode fiber cable between two devices – from COM 1 coupler on the first device to the COM 1 coupler on the second unit



## CONNECTIVITY



### VIDEO

- \* BNC Ports 1-4 – 3G/HD-SDI Inputs with reclockers (patched to outputs 5-8 on the second unit)
- \* BNC Ports 5-8 – 3G/HD-SDI Outputs (patched to inputs 1-4 on the second unit)

### INTERCOM

- \* TO PANEL 1-4 – four 4-wire ports to be connected with a straight Cat5 cable to four Clear-Com **panels**
- \* TO MATRIX 1-4 – four 4-wire ports to be connected with a straight Cat5 cable to four panel ports on a Clear-Com **matrix**

Ports TO PANEL and TO MATRIX work in parallel; the only difference between them is pinout. Use only one of both ports - either to panel or to matrix.

Ports on two Mux22 devices are patched 1:1. Patching can be changed in Optocore Control Software. Detailed pinout can be found in the Mux22 Operating Manual.

### ETHERNET

- \* LAN 1-2 – 2 x RJ45 LAN ports
- \* SANE 1-2 – 2 x RJ45 SANE (audio over Cat5 by Optocore) / LAN ports

Fiber connection between two units creates 8-port unmanaged 100Mbit Ethernet switch.

### GPIO

- \* RS485/GPIO – 4 x GPI, 4 x GPO ports on D-SUB-15 connector

Four bi-directional GPIO ports are patched 1:1 between two Mux22 devices. Patching can be changed in Optocore Control Software.

Detailed pinout can be found in the Mux22 Operating Manual.

### AUX

- \* AUX 1 – 1310nm fiber tunnel, not dependent on protocol or bandwidth

Aux port can be used in example for 1G or 10G Ethernet tunnel or any closed 3rd party protocol.

### SYNC

- \* Sync IN – configurable Sync Input (Tri-Level-Sync, Blackburst or Word Clock)
- \* Sync OUT – configurable Sync Output (Tri-Level-Sync, Blackburst or Word Clock)

By default device with ID1 is the Sync Master. External Sync source should be connected to Sync IN on ID1. Default Sync setup is Bi-Level blackburst NTSC IN and OUT. Sync Mode can be changed in Optocore Control Software.

### COM

- \* COM 1 – fiber combined port which carries all video, intercom and data signals