Magenta Research 2330002-01 Matrix switch scalable to 48x48 (simplex)/ I/O 48 (Duplex)

This listing is for 2330002-01 Switcher only. Use description below as a general reference.

The Voyager VG-Matrix 48x is a high performance full crosspoint matrix switching and extension platform for uncompressed hi-definition video audio and RS-232 control signals over fiber optic cabling. When combined with Voyager series transmitters and receivers, the VG-Matrix can enable any end to end configuration for AV signal distribution.

The VG-Matrix 48x is modular and scalable and can be field configured in increments of 8 inputs and/or outputs up to a maximum of 48x48. Fiber I/O cards connect seamlessly to the fiber inputs or outputs of Voyager transmitters and receivers delivering matrix switching and long distance extension in one platform.

Fully populated, a 48x Voyager VG-Matrix operates as a 48x48 in simplex mode. In duplex mode, which supports two-way RS-232 and HDCP, the switch can operate as 1x47, 2x46, 47x1, 46x2, or any possible combination in between, thanks to Magenta's Flex I/O technology.

Features

- Full-matrix crosspoint switching with Fiber I/O or Fiber I/O with HDCP
- Modular & scalable up to 48x481
- Switching and fiber extension in one platform
- · FiberMAX Engine for high-bandwidth multi-signal transmission from source to display over fiber
- Uncompressed multi-format digital & analog video at 1920x1200 (HDMI, DVI, VGA, YUV, Y/C, Composite) determined by connected VG-TX, VG-RX
- Multi-format audio and RS-2322 determined by connected VG-TX, VG-RX
- Auto format conversion between video & audio signal types
- Distance range of up to 18.75MI/30KM3 determined on input and output
- Mixed singlemode and multimode fiber support4
- Advanced EDID management and full HDCP compliance
- Dual redundant, hot swappable power supplies with dual AC inputs
- Optional touch screen control panel
- Hot plug support
- Magenta quality and reliability for 24/7 operation

Distance Range:

- Multimode: 1000ft/300m (50um), 3300ft/1KM (OM3), 6600ft/2KM (OM4)
- Singlemode: 18.75MI/30KM

Modes of Operation: Simplex: Requires only one LC Fiber

- Video (without auto-DDC or HDCP)
- Audio, Unidirectional RS-232 and IR

Duplex mode:

- · Inputs and output are interchangeable and are auto-detected
- Configurations I+O = 8 160 (Inputs + outputs should be less than the total number of duplex ports (e.g. 5x3, 70x50, 80x80, 120x40 etc)
- I/O upgradability 8 duplex ports, I+O = 8 (each I/O card adds 8 duplex ports each of which can be used as an input or output; e.g. 0x8, 3x5, 7x1 etc.; maximum 8 cards)

Footnotes:

- 1. Simplex mode configurations. Duplex modes are half the configuration but inputs and output modules are interchangeable in non-HDCP applications
- 2. Bidirectional RS-232 requires duplex fiber. Bidirectional RS-232 and audio is supported in 1:1 and 1:n distribution modes.
- 3. 300m (50um cable), 3300ft/1KM (OM3 cable), 6600ft/2KM (OM4 cable), Operating distances are approximate and base on typical distances. The maximum distance may vary due to many factors including fiber type, bandwidth, connector splicing, losses and dispersion
- 4. Determined by receiver type. The attached receiver or DA includes an extra MM or SM fiber module for the transmitter side fiber output.