



- Two duplex fiber output ports
- Transmitter card for use with Voyager CF-18 chassis
- Uncompressed multi-format video at 1920x1200
- Distance range of up to 30km determined by receiver
- Singlemode or multimode fiber support
- Advanced EDID management and HDCP compliance
- Local video output (HDMI)
- Unit ships with one (1) multimode fiber optic SFP module

Designed for use with the 4U, rack-mountable Voyager CF-18 chassis, the Voyager CF-HDMI-TX2 transmitter serves as a starting point for the extension and distribution of video (HDMI with HDCP or DVI), audio and serial signals over fiber-optic cable. A single CF-18 chassis can hold—and power—18 CF-HDMI-TX2 transmitters, leading to neater racks and a more streamlined and efficient installation process versus individually rack mounting and installing individual Voyager transmitters. CF-HDMI-TX2 units support the transmission of 1920x1200 uncompressed video (either HDMI w HDCP or DVI), plus audio and serial to distances of 6,600 feet over multimode fiber. While it ships with one MMF SFP standard, the transmitter features a second port that, when populated with a second SFP, introduces a variety of signal distribution options. For example, users could cascade signals to a second transmitter, or feed a second grouping of Voyager receivers (which can be daisy-chained). Singlemode fiber optic modules supporting longer distances (4KM and 30KM) are available from Magenta.



#### **SPECIFICATIONS:**

**DC input power** +5 VDC, Consumption 5 Watts Maximum

**Video Support** Video input formats (video input port):

- Maximum resolution supported = 1080p or 1920x1200.
- Maximum color-depth = 24 bits per pixel (8 bits per color).
- Maximum refresh rate = 60Hz @ 1920x1200.

Video output formats (local output port):  
The local port is essentially a direct copy of the video input port. However, the output video color-space is always RGB regardless of the input video color-space.

**Audio Characteristics** This module recognizes all 8 channels (if present) of embedded HDMI audio, passing them through the system to the receiver.

<b>Connectors</b>	(1) HDMI-input, (1) HDMI-output
<b>EDID/DDC</b>	This module supports the EDID/DDC connections on the HDMI connectors.
<b>HDMI</b>	Version 1.3b
<b>HDCP</b>	Version 1.1. Classification: HDCP Repeater Device
<b>CEC</b>	The HDMI "CEC" interface protocol is not currently supported. (Note: The hardware is capable. A future firmware upgrade may enable this functionality.)
<b>Environmental</b>	Operating temperature: 32 to 104°F (0 to 40°C). Storage temperature: -4 to +140°F (-20 to +60°C). Humidity: 80% RH, non-condensing.
<b>Enclosure</b>	Steel (0.040"/1mm thick). Powder-coat black paint, white epoxy graphics.
<b>Serial Interface</b>	RS232 standard serial interface. Reflects DCE pinout standard. Signals: TXD, RXD, RTS, CTS, DSR, DTR, DCD and RI. Speeds: 2400, 4800, 9600, 19200, 38400, 57600, 115200, 230400 Baud. Format: 8 data. 1 or 2 stop bits. no parity bit. Flow control: Hardware and software flow-control is available, configurable on/off. Connector: DB9-Female, w/4-40 standoffs. <b>Note:</b> Speed and data format are software-configurable via MAGui. The ISA hardware is capable hardware and software (Xon/Xoff) handshaking. However, this capability is not yet enabled by the firmware. Check with Magenta Research for applicable firmware updates.
<b>Audio interface</b>	Discrete Left and Right line-level audio. This module can function as an input (for TX) or output (for RX) device. The audio signal direction is under software control, and is selected automatically by the type of CORE module being used. <b>Audio-input mode (when used with VG-TX2 CORE):</b> Input voltage: 2V peak-to-peak, maximum. Input impedance: >= 10K ohms. Input coupling: AC (capacitive). Input sample rate: 48KHz Input frequency response: 20-20KHz, (@-3dB). <b>Audio-output mode (when used with VG-RX CORE):</b> Output voltage: 2V peak-to-peak, maximum. Output impedance: <= 100 ohms. Output coupling: AC (capacitive). Output sample rate: 48KHz Output frequency response: 20-20KHz, (@-3dB). Connector: 3.5mm (1/8") stereo-phonon type jack.
<b>System Size</b>	Assumes a typical 3-module configuration consisting of: VIDEO + CORE + ISA modules, docked together: .875"(2.22cm)H x 6"(15.25cm)W x 5"(13.97cm)D Weight: 1.4lbs (.635kg)
<b>MTBF</b>	100,000 hours.



Mount up to 18 Voyager CF Transmitters or Receivers in only 4U

Designed for rack-centric, densely-populated fiberoptic-based pro AV systems, the Voyager CF-18 chassis fits up to 18 Voyager CF (Compact Format) transmitters or receivers in only 4U.

The CF-18 boasts dual (redundant) internal power supplies, eliminating the need for separate external ones, built-in rack-mounting ears to accommodate any standard 19" rack, easy access to all CF transmitter or receiver connections (both front and back) and a replaceable / cleanable air filter.

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#### **SPECIFICATIONS:**

**Configuration/Frame:** 18 slots for Voyager Compact-Format VG CF-HDMI-TX2 and VG CF-HDMI-RX2 modules.

**Rack-Mount:** Standard, 4U height, 19" EIA format

**Enclosure:** Powder coat dimensions: 17.8 cm H x 48.3 cm W x 28 cm D

**Weight:** Fully populated 15.5kg

**Power input:** 100-240V/50/60Hz, 480W max

**Temperature:** Operating 0-40 °C

**Humidity:** 0-80% noncondensing

**Compliance:** CE, FCC Part 15 Class A, C-Tick, VCCI, cTUVus, RoHS