

**Magenta Research 2310016-01 4-p Extender (Transmitter) with HDMI (HDCP)/Audio/RS-232/Two MMF SFP Incl**

Item	Description
<b>DC input power</b>	Provided by the CORE module. However, power consumption of this module alone is approximately 0.5 watts.
<b>Video Support</b>	<p>Video input formats (video input port):</p> <ul style="list-style-type: none"> <li>• Maximum resolution supported = 1080p or 1920x1200.</li> <li>• Maximum color-depth = 24 bits per pixel (8 bits per color).</li> <li>• Maximum refresh rate = 60Hz at 1920x1200.</li> </ul> <p>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.</p>
<b>Audio Characteristics</b>	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, (1) CORE docking connector
<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, (at -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, (at -3dB). Connector: 3.5mm (1/8") stereo- phono type jack.
<b>System Size</b>	Assumes a typical 3-module configuration consisting of: VIDEO + CORE + ISA modules, docked together: 1.75" (4.45cm)H x 7.75"(19.68cm)W x 5.25"(13.33cm)D Weight: 2.2lbs (.997kg)
<b>MTBF</b>	100,000 hours.