

OCTET™ 1x8 Digital Signage Transmitter

Delivering the distribution options, display metrics & control needed

... for today's "narrowcasting" / digital communications networks – and tomorrow's



Octet

Magenta's Octet™ 1x8 UTP/CatX transmitter with display-addressable EIA (RS)-232 provides adaptability, control and optimum video resolution over distance.

Octet is optimized to deliver the display control and metrics desired in today's dynamic signage applications. Combined with Magenta's MultiView™ XR-2000DP-SAP UTP/CatX receivers, WUXGA video, stereo audio and display-addressable control signals are distributed within a 2,000-foot (610 meter) radius from the source, with no repeaters or booster units.

Up to five Octets may be "cascaded" or chained together, and each Octet may have up to 12 receivers daisy-chained from each of its eight output ports, enabling a single Octet distribution system to control over 450 MultiView receivers and displays.

Display control is easily accomplished using Octet's flexible receiver-addressing modes. Communication-sessions with receivers can be established on a specific point-to-point basis, a group-broadcast, or system-wide global-broadcast basis. Turning all displays ON or OFF, for example, can be easily accomplished with a short command string.

Individual receiver addressed are easily assigned using a switch setting or a serial-port command at the receiver. All other system-wide settings, including the receiver baud-rate, are changed using the Octet's display & pushbuttons, or through the Octet's serial port. Addressing specific displays enables fine control of system operation and allows the gathering of display telemetry and metrics, such as "internal temperature", "power-on time", and other display-dependant signage metrics.

For video/audio/serial signal distribution within a radius less than 2,000 feet, AK600DP-SAP and AK1200DP-SAP receivers are also available, ensuring the user only pays for the distance required. This is representative of Magenta's cost-effective "building block" approach to signal distribution.

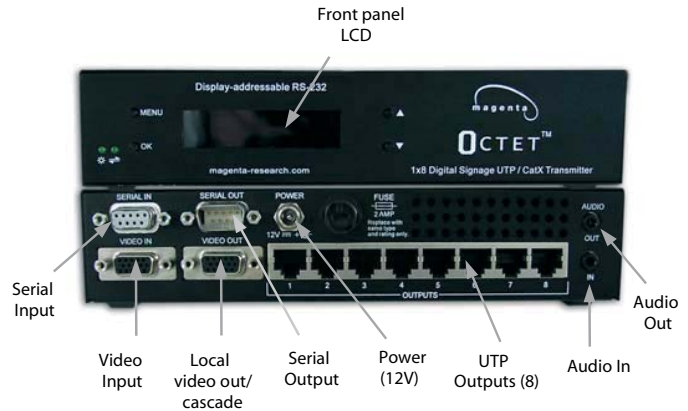
Companion Products:



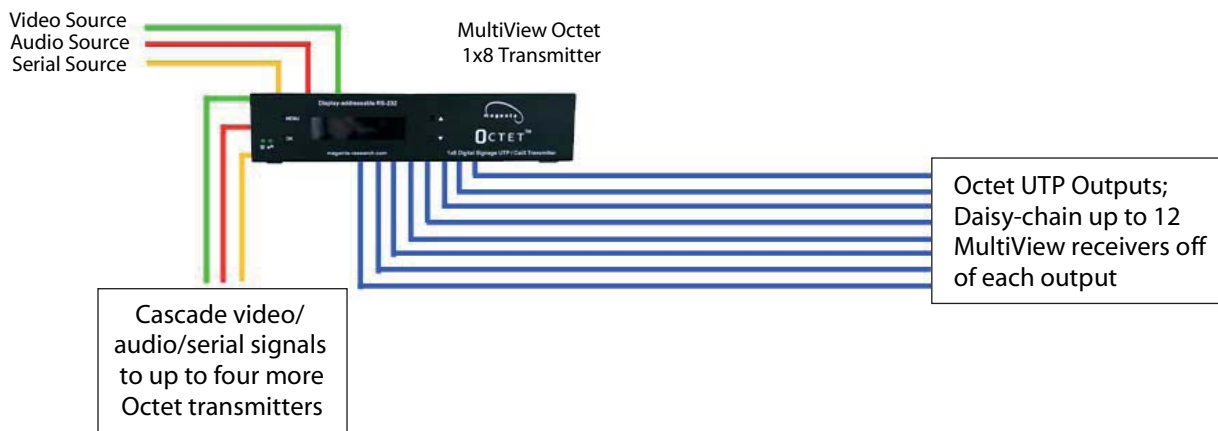
Benefits of MultiView™ Octet:

- Video/audio/display-addressable EIA (RS)-232 over one UTP
- High resolution: 1920x1200 / 1080p compatible
- HDTV / Component / YUV compatible
- Stereo audio support
- Eight UTP outputs / cascade-able / daisy-chain receiver compatible
- Reach any number of displays – from a handful to 456
- Bi-directional control of any or all displays from one COM port
- 2,000 ft. (610m) range using MultiView receivers
- DDC and Vista® compatible
- LCD status display
- Rack mountable; 1 or 2 Octets in 1U with optional kit

Octet Front/Back Connectors



MultiView Octet Example Application



Specifications

Cable Required: Category 5, 5e, 6 shielded or unshielded twisted pair

Compliance: CE; FCC Class A, IC Class A

Video Support: all supported VESA modes to WUXGA (1920x1200), RGBHV, RGB, Composite (NTSC, PAL, SECAM), S-Video, Component Video, widescreen modes, HDTV modes including 1080p, 1080i, 720p (Receiver Dependent); DDC/EDID fully supported

Resolution: 1920x1200 (Receiver Dependent)

Required Source Impedance: Video OUT: 75 ohms;
Audio models: Audio OUT (if any): 600 ohms maximum

Required Destination Impedance: Video IN: 75 ohms;
Audio models: Audio IN (if any): 24k ohm

Audio Characteristics: Full Stereo Line Level 600 Ohm Unbalanced

Serial Characteristics: Protocol: Asynchronous; transparent to data format; 3 wire (Tx, Rx, Gnd), baud rate selectable. Default baud rate is 9600.

Connectors: (2) 3.5 mm (1/8"), (8) RJ-45, (2) HD15 F; (2) DB9M

Temperature Tolerance: Operating: 32 to 104°F (0 to 40°C);
Storage: -4 to +140°F (-20 to +60°C)

Humidity Tolerance: Up to 80% noncondensing

Enclosure: Steel

Power: +12 VDC (PSU included)

Consumption: 18 watts maximum

Size: 1.75"H x 8.7"W x 6.0"D (4.4 x 22.1 x 15.2 cm)

Weight: 2.3 lb. (1.04 kg)

Compatible Receivers:

RGBHV:

AK600DP-SAP
AK1200DP-SAP
XR-2000-SAP