

Revolutionary DVI Extension

- Unlimited distance via daisy-chaining DVI receivers
- Stereo audio + duplex, addressable serial over UTP or fiber



Infinea DVI Receiver

Magenta Research's Infinea™ is the ultimate solution for transporting DVI (Digital Visual Interface) signals over copper and/or fiber. Infinea can extend the reach of DVI sources over three different cable types. First, one strand of single mode fiber provides DVI long haul distances of 10 km (6.2 miles) or more. Second, dual multimode fibers carry DVI signals 500m/1640 feet. Third, a single Cat6 cable provides DVI transportation for short to medium distances (183 meters/600 ft.).

A revolutionary feature of Infinea is its daisy-chain capability. Receivers can be daisy chained in fiber, copper or mixed domains. This delivers nearly boundless distance and cost effective local distribution of high resolution video, audio and serial signals. Infinea receivers are perfect digital signal repeaters, adding 500 ft. of UTP extension, ten kilometers of single mode fiber extension, or 1,640 feet (500m) of multimode fiber extension with each link. As a result, there's virtually no limit to the number of daisy-chain receivers or extension distance!

Magenta's Infinea system provides picture-perfect video reproduction at all specified distances, formats and resolution levels that span all VESA standards to UXGA (1600 x 1200) @ 60Hz and all HDTV progressive formats, including 1080P (single link). Unlike other less sophisticated technologies, Infinea handles all formats automatically and is not limited to a "menu" of formats.

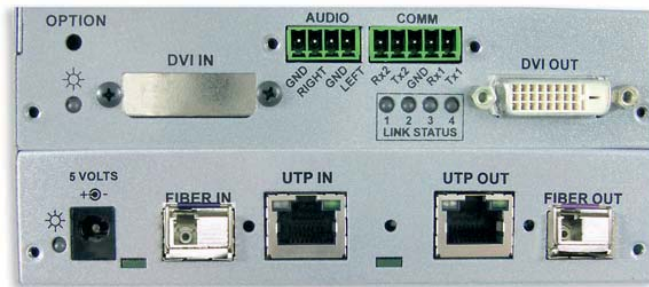
The -SA option adds support for stereo audio and duplex RS-232 distribution, while the -SAP option provides stereo audio and addressable full-duplex RS-232, enabling communication and control of individual displays in a daisy-chain.

Single-Link UTP Distance:	1-600 ft. using a single Cat6 UTP or STP / 1-500 ft. using Cat5e Subsequent daisy-chain links: 1-500 ft. on Cat6/Cat5e
Single-Link Fiber Distance:	1-10,000 meters using single-mode fiber, 1-1,640 feet using dual multimode fibers
Video Signal Support:	Any VESA or equivalent format, covering VGA through UXGA (1600 x 1200 @ 60Hz) HD modes: 480p, 720p and 1080p (see specifications on back)
Optional Audio & Data Signal Support:	CD quality line level (775 mV RMS) stereo RS-232 serial data with fully addressable (pollable) destination control

Benefits of Infinea™ DVI

- Virtually unlimited extension capabilities in daisy-chain configuration
- Ideal source replication over any supported distance
- Format agile – ease of application & installation
- Use copper or fiber to suit requirements
- Flexible distribution capability – building-block approach fits any installation footprint
- Multimode fiber to 1,640 feet or single-mode fiber to 10km (greater distances obtainable, please contact Magenta)
- Local DVI output port at transmitter for monitoring and cascading
- Proprietary encoding algorithm provides high level of signal security in both copper and fiber domains
- -SA models add stereo audio and duplex EIA (RS)-232
- -SAP models add stereo audio and addressable full-duplex EIA (RS)-232
- Selectable signal algorithms (via switch) optimize DVI fidelity for various content types
- High-reliability design suitable for harsh environments
- Fiber versions include UTP functionality (not concurrently)

Infinea DVI-SA / -SAP Daisy-Chain Receiver (SMF to SMF) Front / Back Connectors



Infinea DVI Connector Chart:

Description		DVI Input	DVI Output	Fiber Input	Fiber Output	UTP Input	UTP Output	Audio Input (4 pin Phoenix)	Serial Input (5 pin Phoenix)	Audio Output (4 pin Phoenix)	Serial Output (5 pin Phoenix)
UTP	Infinea DVI Tx UTP										
	Infinea DVI Rx UTP										
	Infinea DVI Rx Daisy-Chain, UTP to UTP										
	Infinea DVI-SA/-SAP Tx UTP										
	Infinea DVI-SA/-SAP Rx UTP										
	Infinea DVI-SA/-SAP Rx Daisy-Chain, UTP to UTP										
	Infinea DVI Rx Daisy-Chain, UTP to Fiber										
	Infinea DVI-SA/SAP Rx Daisy-Chain, UTP to Fiber										
Fiber	Infinea DVI Tx Fiber										
	Infinea DVI Rx Fiber										
	Infinea DVI Rx Daisy-Chain, Fiber to UTP										
	Infinea DVI Rx Daisy-Chain, Fiber to Fiber										
	Infinea DVI-SA/SAP Tx Fiber										
	Infinea DVI-SA/SAP Rx Fiber										
	Infinea DVI-SA/SAP Rx Daisy-Chain, Fiber to UTP										
	Infinea DVI-SA/SAP Rx Daisy-Chain, Fiber to Fiber										

Specifications

(subject to change without notice)

Video transport: DVI, single link (DVI-D)

Audio transport: Optional line-level CD quality via Phoenix connector

Serial data transport: Optional duplex EIA (RS)-232 via Phoenix connector
Data rate: 1.2k to 115.2k

Dimensions: 4.1" W x 1.2" H x 5.5" L (10.4 cm x 3.05 cm x 14.0 cm)

Weight: 1.0 lb (0.45 kg)

Fiber connector: LC **UTP connector:** RJ45

DDC: Mock mode for standard formats. Non-standard format/display DDC info can be taken from display & stored by Infinea DVI Tx

Power consumption: 5VDC @ 1A max;
 External power supplies sold separately (U.S., International or rack-mount)

Operating Temperature: 0 to 40° C **Storage Temperature:** -20 to 60° C
Humidity: 80% non-condensing **MTBF:** 100,000 hrs

Resolutions supported:
 Virtually all formats supported; graphics card dependent
Standard formats @ 60Hz: 640x480, 800x600, 1024x768, 1152x864, 1280x768, 1280x960, 1280x1024, 1360x760, 1366x768, 1600x1200, 1680x1050

HD: 480p, 720p and 1080p [graphic card must support reduced clock rate for LCD panel (5% blank) for 1080p]

Rack Mounts: 3 units in 1U; 6 units in 2U