Xcion DVI

Xcion Digital Extender

▸ Lossless video to 1080p and 1920x1200@60Hz

▸ Supports USB-HID devices (keyboard, mouse, touchscreen and other USB-HID pointing devices)

▸ USB 2.0 extension

▸ Uses only one CATx solid-core interconnect cable or duplex multi-mode fiber cable (LC), with optional single-mode fiber support

▸ Optional bidirectional audio and RS232 support

Features and Benefits

- Extends Full HD digital or analog video with no loss of quality

- Transparent USB 2.0 device support

- Transmitter and Receiver linked by a single CATx cable or by duplex multi-mode fiber cable with LC connectors

- CATx extension up to 426 ft (130 m), up to 1640 ft (500 m) with multi-mode fiber cable, or up to 65,600ft (20km) with optional single-mode fiber

- Input and output video resolutions up to Full HD 1080p and 1920 x 1200 @ 60 Hz

- Base model supports digital video and USB 1.1 and 2.0 devices (keyboard, mouse and other HID devices) at data rates up to 12Mbps

- Optional USB 2.0 high-speed device support (up to 64Mbps) for devices which need higher data rates, such as mass storage devices, cameras, smartcard readers

- Optional RS232 support

- Optional bi-directional analog audio

- Optional VGA input with digital output

- Local monitor output at the at the transmitter

- Firmware upgrade requires no special cable

- DDC menu allows use of local or remote monitor EDID, or any of 5 fixed selections

- OSD menu functions allow option activation, firmware updates, monitor synchronization, and OSD locking

- 4 units can be mounted in a 1U 19" rack

Product Overview . . .

The Xcion Digital Extender from Rose Electronics is the ideal device for extending DVI or VGA video and USB without loss of video quality. The system supports video resolutions up to full HD 1080p and 1920 x 1200 @ 60Hz.

The Xcion Digital Extender is available in two models, using either CATx or fiber cable interconnects. Signals can be extended to 426 ft (130m) over CATx cable or 1640 ft (500m) over multi-mode fiber cable.
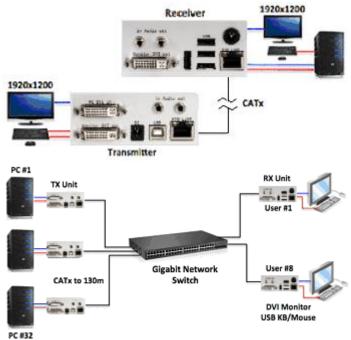
The Receiver unit supports up to 4 directly connected USB 1.1 or 2.0 devices at speeds up to 12Mbps (e.g. keyboards, mice, touch screens, tablets, scanners, or printers). The USB 2.0 memory option adds support for equipment such as mass storage devices, which need data rates up to 64Mbps. The option can be included in the original order, or activated later by purchasing an unlock code and entering it in the OSD menu.

Other support options include bidirectional analog audio, full RS232 signal extension, and VGA video input.

The Xcion Digital Extender is packaged in a compact steel chassis, ideal for use in industrial applications and at installation sites requiring a robust and durable product. The TX/RX chassis can be rack mounted in a rack cabinet, with up to 4 units side-by-side on a 1U shelf, as well as wall, table or DIN rail mounted.

ROSE ELECTRONICS

Applications

Overview
The Xcion Digital Extender is a robust and cost effective digital extension system which can be configured to suit most connectivity needs. Digital video (1080p or 1920x1200) and USB-HID are standard. Add-on options include high-speed USB 2.0 (64Mbps), bidirectional analog audio, serial RS-232, and VGA video input. Rack mounting options, a metal chassis and a DC power supply make this product particularly suitable for industrial extension environments.

Installation
Easy installation and minimal setup allows the extension system to be available for use quickly. Connect the Transmitter to the host computer and, if desired, a local display monitor, using DVI cables and a USB A/B cable. The Receiver is connected to the output monitor with a DVI cable and to a USB keyboard and mouse. Depending on the model used, connection between the Transmitter and Receiver is made through a CATx or multi-mode fiber cable. Apply power to the units. Further configuration can be made in the Extender OSD.

KVM Switching Option
Multiple Xcion Digital Extenders (Transmitter and Receiver units, CATx version) can be connected to a dedicated Ethernet network switch to create a distributed matrix switch. A single user can access multiple different computers through the switch, and multiple users can access a single PC/Server using a limited command structure.

Specifications

Part Numbers	Description
XCK-2DTXUD1D	Xcion CATx Extender kit with DVI/USB
XCK-2DFMUD1D	Xcion Fiber Extender kit with DVI/USB
/AS	Add Audio/Serial Option
/1T	Add USB 2.0 High Speed Option (64Mbps)
/V	Add VGA Input Option
Physical Specification	
Dimensions (WxDxH)	3.88" x 4.17" x 1.6" / 98mm x 106 mm x 41 mm
Rackmount	Up to 4 channels in 19" 1U rack
Weight	1.19 lb / 540 g
Video	
Max Resolution	1080p, 1920 x 1200 @ 60Hz
Input Format	DVI
Output Format	DVI
EDID Support	Internal EDID; user updatable
Cables	
CATx	Solid-Core, CATx5e/6/7. EIA/TIA568-A, 24AWG or greater. Use shielding, or use STP. Max Distance: 426 ft (130 m)
Fiber	▪ Duplex Multimode, 50/125μ, LC-type, Max Distance : 1640 ft (500 m) ▪ Optional Single mode LC, Gigabyte LWL, Max Distance : 65617 ft (20km)
Configuration	OSD accessed from the Receiver
LEDs	1 x LED; Red = No Video, Green = Video Signal
Audio	
Analog	Optional Bi-Directional Stereo Analog
Serial	Optional with support for all RS-232 signals up to 57,600 baud
Power	100-250VAC, 12VDC, 1A
Environmental	
Operating Temp	32°F to 113°F (0°C to 45°C)
Storage Temp	-4°F to 158°F (-20°C to 70°C)
Humidity	0% to 80% relative, non-condensing
Approvals	FCC Class A, UL, CE, RoHS 2