CrystalView Exact

DISPLAYPORT 4K60 and USB 3.1 CATx EXTENDER

- ▶ DisplayPort 1.2a 4K60 with embedded audio
- ▶ USB 3.1 Gen 1 SuperSpeed data rates up to 5Gbps
- ▶ Supports DisplayPort and all USB 3.1, 2.0, 1.1 devices simultaneously at full bandwidth
- ▶ Single CAT6a or CAT7 cable, up to 328ft (100m)
- ▶ Receiver has four USB 3.1 Gen 1 ports
- ▶ Separate Ethernet 100/1000 channel for LAN pass-through
- ▶ Point-to-point plug-and-play connection

Features and Benefits

- Extends DisplayPort 1.2a video with embedded audio at resolutions up to 3840×2160@60Hz
- YCbCr 4:4:4 and RGB color (6, 8, 10 bit) support
- Extends USB 3.1, USB 2.0 and USB 1.1 devices up to 328ft (100m) using a point-to-point CAT6a/7 cable
- Supports all USB 3.1 Gen 1, USB 2.0 and USB 1.1 devices simultaneously without compromising USB 3.1 5Gbps bandwidth
- Four USB 3.1 Gen 1 ports on the receiver, each supplying 1.2A (6W)
- Separate 100/1000 Ethernet channel for LAN pass-through
- Bidirectional RS232 serial support at baud rates to 115200
- Plug-and-Play installation, no configuration or driver installation required
- Works with all major operating systems: Windows®, Mac OS X™, Linux®, and ChromeOS™
- Transmitter and receiver each powered by +24VDC power adapters with locking connectors

Product Overview

The CrystalView Exact CATx extender is an industrial grade extender of DisplayPort 1.2a video and USB 3.1, USB 2.0 and USB 1.1 devices. It supports ultra high definition DisplayPort video and the full range of USB peripherals such as USB 3.1 cameras, USB 2.0 hard drives and USB 1.1 keyboard and mouse. It also extends RS232 serial signals over the same point-to-point CAT6a/CAT7 cable at distances up to 328ft (100m).

A second CATx channel is provided for extending 100/1000 Ethernet LAN signals. This allows the use of existing LAN infrastructure without risking the loss of LAN connectivity
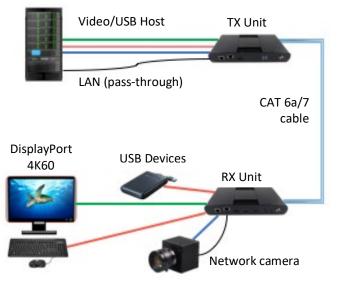
This high performance extender allows the user's console display and peripheral equipment to be placed at a distance from secure host computer locations.

Data transmission is point-to-point, using a single CAT6a or CAT7 cable (UTP, STP or FTP). Solid core premise cable should be used to achieve the full 328ft (100m) extension distance.

Typical Application

The CrystalView Exact extender is designed for use in boardrooms, conference rooms, video production installations, medical imaging facilities, or any location requiring high definition video and transparent USB extension.

Video/USB Host   TX Unit

LAN (pass-through)

CAT 6a/7 cable

DisplayPort 4K60   USB Devices

RX Unit

Network camera

Installation   Connect the host device DisplayPort video output and one of its USB 3.1 ports to the Transmitter. Connect the console display and USB devices to the Receiver. To connect more than 4 USB peripherals, use up to 3 powered USB hubs. Connect the Transmitter to the Receiver with up to 328ft (100m) of CAT6a/7 cable. Apply power and the installation is complete.

USB Support   CrystalView Exact features 4 USB 3.1 Gen 1 remote ports and 1 USB 3.1 local port. USB 1.1, USB 2.0 and USB 3.1 Gen 1 devices can be used simultaneously without decreasing the 5Gbps bandwidth available to USB 3.1 equipment. The Receiver provides 1.2A (6W) of power to each USB device.

Ethernet Pass Through   The product features a second RJ45 connector for pass-through connection of network enabled devices to existing 100/1000 Ethernet LAN infrastructure.

Serial control   Three pin terminal blocks allow the connection of RS232 devices for command and control applications.

Specifications

Dimensions (W × D × H)	9.1" × 5.4" × 1.3" 232mm × 137mm × 33mm
Packaged weight	6.49lbs (2.95Kg)
Transmitter power adapter	Input: 100-240VAC, 50/60Hz Output: 24VDC, 1A
Receiver power adapter	Input: 100-240VAC, 50/60Hz Output: 24VDC, 2.71A
CATx cable type	CAT6a/CAT7 solid core for max distance
Max cable length	328ft (100m).
Video	Resolution up to 3480 x 2160 @60Hz; YCbCr 4:4:4 and RGB color (6, 8, 10 bit) support
USB speeds	SuperSpeed 5Gbps, high speed, full speed, low speed
USB host support	OHCI, UHCI, EHCI, xHCI controllers
Max USB devices	30
OS compatibility	Windows®, Mac OS X™, Linux®, ChromeOS™
LED Indicators	Power, status, link, USB2, USB3
Transmitter connectors	1 × DisplayPort 1.2a connector 1 × USB 3.1 type B connector 1 × RJ45 Ethernet 100/1000 port 1 × RJ45 link port 1 × 3-pin terminal block for RS232 1 × locking power jack
Receiver Connectors	1 × DisplayPort 1.2a connector 4 × USB 3.1 type A connectors 1 × RJ45 Ethernet 100/1000 port 1 × RJ45 link port 1 × 3-pin terminal block for RS232 1 × locking power jack
Operating environment	Temp: 32°F to 104°F (0°C to 40°C) Humidity: 20% to 80%, non-condensing
Storage environment	Temp: -4°F to 158°F (-20°C to 70°) Humidity: 10% - 90%, non-condensing
Approvals:	FCC, CE, ICES-003, RoHS2, WEEE

Part numbers

CRK-1DTXU321DP	CrystalView Exact Extender Set
RM-UD/CLK321	Shelf, wall or under desk bracket kit

WWW.ROSE.COM ▪ **sales@rose.com** ▪ **(800) 333-9343**

Rose Electronics ▪ 10707 Stancliff Road ▪ Houston, Texas 77099
Rose USA (281) 933-7673   ▪ Rose Europe +49 (0) 2454 969442
Rose Asia +65 6324 2322   ▪ Rose Australia +61 (0) 421 247083
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