Orion X series Extenders

DVI-D Extenders

- DVI-D Input / Output
- CATx or Fiber interface
- Extend distances up to 450 feet over CATx cable, 6.2 miles over single-mode fiber cable
- Supports resolutions up to 1920 x 1200 @ 60Hz
- Modular design for custom applications
- x2, x4, x6, or x21 slot chassis available
- Options: USB 2.0, Analog or Digital audio, Serial, and redundant power

Features and Benefits

- Extend your KVM stations and computers:
    - Up to 33,000 feet (10Km) using single-mode fiber cable
    - Up to 3,300 feet (1000m) using multi-mode fiber cable
    - Up to 450 feet (140m) using CATx cable
- Supports USB HID devices
- Supports resolutions up to 1920 x 1200 @ 60Hz including High-Definition 1080p
- Modular design allows you to add specific cards to match your system configurations
- Available Cards:
    - Single and multi-head video
    - DVI video input / output
    - Transparent USB 2.0
    - Serial
    - Analog audio
    - Digital audio
    - Redundant PSU
- All interface connections are on one side
- Supports all operating systems
- High quality DVI video transmission
- Optional redundant power supply
- Rack mount option (19" rack)
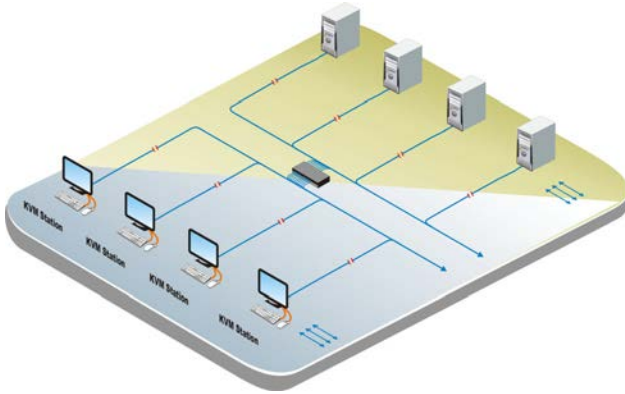
The Orion™ Extender Advantage . . .

The modular design of the Orion extenders makes it one of the most versatile KVM extender products available.

The main module has a DVI-D connector, CATx of fiber connector and 2 USB HID ports for the keyboard and mouse. By adding one of the optional cards, the extender can be configured for USB 2.0, serial and digital or analog audio.

Connection status LEDs are located on the front panel that indicate the operating status of the unit.

Optional card

Main card

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Typical Application

Access your computers over CATx or Fiber cable

Overview   The Orion extender system consists of a transmitter unit for each connected computer and a receiver unit for each connected KVM workstation. The transmitter and receiver units are available in several models. These models are selected to match the computer and KVM workstations configuration.

The transmitter and receiver units are connected together using CATx cable, single-mode fiber cable, or multi-mode fiber cable.

If a computer has a dual-head video card, the dual video transmitter and receiver would be used. USB 2.0 transparent, analog or digital audio and serial configurations can also be added. The Orion extenders provide a truly flexible and scaleable addition to your system.

Installation   The Orion extenders can easily be installed to streamline and simplify your system requirements. Connect the appropriate transmitter module to a computer; connect the receiver module to a KVM station and connect the transmitter to the receiver units using either CATx of fiber cabling.

The default DDC settings are normally satisfactory for most monitor connections. If needed, the DDC information can be obtained from the monitors or loaded to the unit from a binary file. Generally, no configuration is needed.

Options – DVI-D input
USB 2.0 transparent
Serial
Analog Audio
Digital Audio

Specifications

Resolution – 1920 x 1200 @ 60hz

Distance –   CATx – 450' (140m)
Multi-mode fiber – 3,300' (1Km)
Single-mode fiber – 33,000' (10Km)

Interface – Link - CATx or Fiber cable
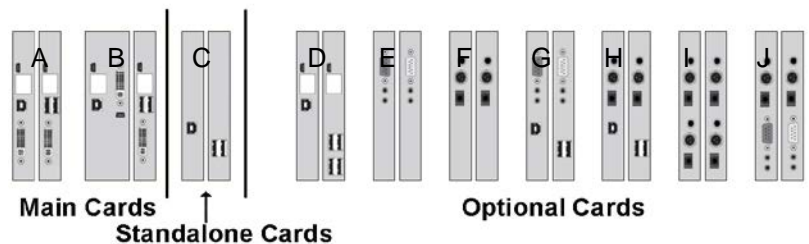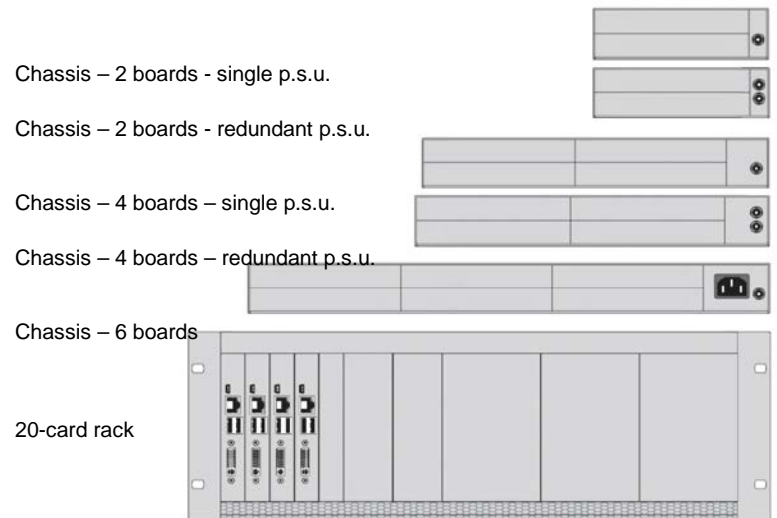Connectors – RJ45 or LC Fiber
Video – DVI-D
USB – Type A or Type B
Audio – 3.5mm audio jack

Power – 5VDC

Available transmitters and receivers

Chassis – 2 boards - single p.s.u.

Chassis – 2 boards - redundant p.s.u.

Chassis – 4 boards – single p.s.u.

Chassis – 4 boards – redundant p.s.u.

Chassis – 6 boards

20-card rack

Main Cards   **Standalone Cards** ↑   **Optional Cards**

A- DVI-D, USB-HID
B- DVI-I , USB-HID
C- USB Transparent
D- USB-HID
E- Analog audio (bidi) + RS232

F- Digital audio (unidi)
G- Analog audio (bidi) + RS232 + USB-HID
H- Digital audio (unidi) + USB-HID
I- Digital audio (bidi)
J- Digital audio + analog audio + RS232

Cards insert into the chassis or rack. Optional cards must be combined with a main card. Cable connectors can be for CAT5, single-mode fiber or multi-mode fiber

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