Diagram: KVM Connections
**Extenders: Full Line of KVM Solutions**

**CLASSIC SERIES**

- **474 Series - vario**
  DVI extenders up to 1920 x 1200

- **481 Series - vario**
  HDMI extenders up to 1920 x 1080

**ULTRA SERIES**

- **490 Series - ultra**
  DisplayPort 1.2 up to full 4K60, 30bit, 4:4:4

- **491 Series - ultra**
  HDMI 1.3 extenders up to 1920 x 1080

- **492 Series - ultra**
  Dual Head for two DVI displays

- **493 Series - ultra**
  DisplayPort 1.1 up to 4K30

- **494 Series - ultra**
  DVI-I (VGA) extenders up to 1920 x 1200

- **495 Series - ultra**
  HDMI 2.0 extenders up to 4K

- **496 Series - ultra**
  SDI to KVM extenders up to 3G-SDI

**Upgrade Cards for Extenders**

Add additional signal support with optional upgrade cards.
- USB 2.0 full speed
- USB 2.0 high speed
- Analog Audio
- Digital Audio
- RS-232
- RS-422

**486 Series - vario**
SDI to KVM extenders up to 3G-SDI

**482 Series - vario**
DVI dual link up to 2560 x 2048

**483 Series - vario**
DisplayPort extender up to 4K30

www.ihseusa.com | +1.732.738.8780 | call toll free 866.721.0744 | info@ihseusa.com
IHSE brings True KVM workstation management solutions with the latest high performance extenders for computer video and USB keyboard and mouse extension over fiber or Cat-X connections. Based on the highly efficient Fraunhofer IIS Lici® codec, these new extenders enable picture perfect transmission of video sources with resolutions up to 4096 x 2160 at 60 hertz and full color depth (10bit, 4:4:4). Offered in several module types, features such as looping outputs and redundant ports allow maximum efficiency whether used as point-to-point connections or integrated into IHSE’s high performance KVM switch systems.

KVM Extender Types: Ultra

**HDMI**

**DRACO ULTRA - 491 SERIES**

- 1920X1080p 50/60Hz / 1920x1200
- HDMI 1.x (8 bit, true color)
- USB-HID for keyboard / mouse
- embedded audio
- Cat-X or Fiber connections
- Fits all enclosures
- Lici CODEC
- EDID / USB emulation capable

**DisplayPort 1.1**

**DRACO ULTRA - 493 SERIES**

- Up to 4096X2160p 30Hz
- DisplayPort 1.1
- USB-HID for keyboard / mouse
- embedded audio
- Cat-X or Fiber connections
- Fits all enclosures
- Lici CODEC
- EDID / USB emulation capable

**HDMI 2.0 (4K)**

**DRACO ULTRA - 495 SERIES**

- Up to 4096X2160p 60Hz
- HDMI 2.0
- USB-HID for keyboard / mouse
- embedded audio
- Cat-X or Fiber connections
- Lici CODEC
- EDID / USB emulation capable

**DVI-D**

**DRACO ULTRA - 492 SERIES**

- 1920X1080p 50/60Hz / 1920x1200
- DVI Dual Head or Dual Link
- USB-HID for keyboard / mouse
- Cat-X or Fiber connections
- Fits all enclosures
- Lici CODEC
- EDID / USB emulation capable

**DVI-I (VGA)**

**DRACO ULTRA - 494 SERIES**

- Up to 1920X1200 @60Hz
- DVI-I (VGA)
- USB-HID for keyboard / mouse
- embedded audio
- Cat-X or Fiber connections
- Fits all enclosures
- Lici CODEC
- EDID / USB emulation capable

**DisplayPort 1.2 (4K)**

**DRACO ULTRA - 490 SERIES**

- Up to 4096X2160p 60Hz
- Options for 5K/8K with dual ports
- DisplayPort 1.2 , 30 bit, 4:4:4
- USB-HID for keyboard / mouse
- embedded audio
- Fiber SM / MM
- Lici CODEC
- EDID / USB emulation capable

**DRACO ULTRA - 496 SERIES**

- The Draco ultra 496 Series Cat5e/6 and fiber extenders for DVI-D in dual-head or dual-link models. The dual-head model, the Draco ultra Dual-Head KVM extend-er, makes it possible to connect two DVI monitors over a single twisted-pair or fi-ber cable, saving the expense of a second extender and reducing cabling cost and installation effort.

**DRACO ULTRA - 494 SERIES**

IHSE has long offered DVI-I extenders to convert analog VGA signals to digital DVI. Now, with the Draco ultra 494 Series, legacy VGA signals can easily be interfaced to all other Draco ultra extenders, reducing the need to incorporate additional VGA-to-DVI conversion boxes.
With KVM extenders, users can re-locate their computers or CPU servers at longer distances than standard cabling interconnects allow. KVM extenders can be interconnected via copper cables (Cat X) or fiber optic cabling up to 10km. IHSE extenders provide complete peripheral connections (keyboard, mouse, monitor, USB-HID and USB 2.0) as if they were located directly at the workstation. By relocating CPU devices in separate equipment rooms, it becomes much easier to protect critical CPU’s and servers from dirt, moisture and unauthorized access.

By relocating CPU devices in separate equipment rooms, it becomes much easier to protect critical CPU’s and servers from dirt, moisture and unauthorized access.

Operators are offered a much more friendly work area without the heat and noise disturbances produced by powerful computer CPU’s and servers. This is crucial in environments such as data centers, hospitals, sound studios, hospitals, financial centers, air traffic control towers and sea-going vessels where equipment space is limited.

**KVM Extender Types: Vario**

**HDMI**

- **DRACO VARIO- 481 SERIES**
  - Designed to extend HDMI signals up to 140 meters over Cat5e/6 twisted-pair cabling or up to 10 kilometers over single-mode fiber. These state-of-the-art extender units provide up to 1080p60 video resolution along with latency-free USB for keyboard and mouse.
  - 1920X1080p 50/60Hz / 1920x1200
  - HDMI 1.4 (8 bit, true color)
  - USB-HID for keyboard / mouse
  - embedded audio
  - Cat-X or Fiber connections
  - Fits all enclosures
  - EDID / USB emulation capable

**DisplayPort 1.1**

- **DRACO VARIO- 483 SERIES**
  - The 483 Series Draco DP extender allows the operation of CPUs from a remotely located workstation including DisplayPort monitor, keyboard and pointing device over a single duplex fiber cable. Transfer of fully-digital video is supported in 4K resolutions up to 4096 x 2160 and 3840 x 2160 at 30-Hz refresh rate and full color depth (24-bit, 4:4:4).
  - Up to 4096x2160p 30Hz
  - DisplayPort 1.1
  - USB-HID for keyboard / mouse
  - embedded audio
  - Cat-X or Fiber connections
  - Fits all enclosures
  - EDID / USB emulation capable

**DVI-D - DH/DL**

- **DRACO VARIO- 482 SERIES**
  - The Draco 482 Series Cat5e/6 and fiber extenders for DVI-D in dual-head or dual-link models. The dual-head model, the Draco ultra Dual-Head KVM extender, makes it possible to connect two DVI monitors over a single twisted-pair or fiber cable, saving the expense of a second extender and reducing cabling cost and installation effort.
  - 1920X1080p 50/60Hz / 1920x1200
  - DVI Dual Head or Dual Link
  - USB-HID for keyboard / mouse
  - Cat-X or Fiber connections
  - Fits all enclosures
  - LiCi CODEC
  - EDID / USB emulation capable

**DVI-I (VGA)**

- **DRACO VARIO- 474 SERIES**
  - IHSE has long offered DVI-I extenders to convert analog VGA signals to digital DVI. Now, with the Draco 474 Series, legacy VGA signals can easily be interfaced to all other Draco ultra extenders, reducing the need to incorporate additional VGA-to-DVI conversion boxes.
  - Up to 1920X1200 60Hz
  - DVI-I / VGA
  - USB-HID for keyboard / mouse
  - Cat-X or Fiber connections
  - Fits all enclosures
  - EDID / USB emulation capable

**SDI / KVM**

- **DRACO VARIO- 486 SERIES**
  - Supports cross-conversion of 3G-SDI signals for sharing serial digital video with IHSE’s Draco tera KVM matrix switches. This extender allows source and destination extensions up to 10 kilometers over single-mode fiber, or up to 140m over Cat-X. This capability allows users to view content on a wide range of monitors without needing dedicated SDI displays and extra cables for SDI extension.
  - Up to 4096 x 2160@30Hz, 3840 x 2160@30Hz
  - 3G-SDI
  - USB-HID for keyboard / mouse
  - Cat-X or Fiber connections
  - Fits all enclosures
  - EDID / USB emulation capable
**KVM Matrix**  
**Draco tera enterprise**

- **Flex-Port Technology**
- **Modular I/O cards**
- **Multi-screen control**
- **Mix Cat-X / Fiber cards**
- **Control up to 24 Levels**
- **Modular Extender Styles**
  - DVI
  - HDMI
  - DisplayPort
  - VGA
  - SDI
  - USB-HID
  - USB 2.0
  - USB 3.0
  - Digital Audio
  - Analog Audio
  - RS-232
  - RS-422

**48 Ports**

**80 Ports**

**160 Ports**

**288 Ports**

**576 Ports**

The Draco tera enterprise matrix is the perfect high performance, modular routing system for complete in-band signal distribution of high definition video, audio, and data over Cat-X, multi-mode or single-mode fiber optic cable supporting up to 576 I/O ports in a single frame. Designed with performance and flexibility in mind, the Draco tera enterprise offers tremendous scalability with cost effective features. Each port can be user-configured as an input or an output scalable from one CPU to multiple workstations or with multiple CPUs managed by a single workstation console. For mission-critical installations, Draco tera matrix switches are ideal. The multi-level redundancy concept of the Draco tera enterprise offers the highest level of reliability for 24/7 operation. Each Draco tera enterprise chassis supports fully redundant power and hot swappable modules for full service and field upgrades without interrupting signal flow. The Draco tera enterprise is compatible with all IHSE extenders.

**FEATURES**

- Instantaneous delay-free switching
- FlexPort technology allows for dynamic configuration with any port used as input, output or tie-line
- 8 port cards for Cat-X, Fiber, XV Fiber or UNI-IO for USB 3.0 and SDI
- Extend signals up to 140m over Cat-X or up to 10km over fiber
- Real-time experience of full HD video, keyboard, mouse, and tablets
- Full HD resolutions to 1920x1200, 2K up to 2560x1600, and 4K up to 4096 x2160 @60Hz / 5K and beyond
- Optional video resolutions for SD, HD, 3G-SDI up to 1080p60 with UNI-IO option card
- Bi-directional digital audio, analog audio and RS-232/422 options
- Operation via
  - Java-Tool (Graphical web interface) for configuration, operation and maintenance
  - OSD (On Screen Display) for configuration and operation (inband)
  - Keyboard for operation (inband)
  - Serial interface for operation (API)
  - Ethernet for operation (API)
The Draco tera enterprise matrix switch can accommodate a wide range of signal formats. I/O cards can be mixed in the same frame allowing ultra flexibility for any KVM application.

- **480-C8**: I/O Card - Cat-X
  - The Draco tera 480-C8 card is based on 8 bi-directional ports using standard RJ-45 Cat-X interconnects. The card is port agnostic allowing the same card to be used for either input or output connections. Signal formats supported include DVI-I, DVI-D, HDMI, DisplayPort and VGA. Signals can be extended up to 140m. The card is hot swappable and includes a locking tab to keep the card securely in place. This card supports up to 4 multi-screen displays with a single mouse and keyboard.

- **480-C8R1**: I/O Card - Cat-X
  - The Draco tera 480-C8-R1 card is based on 8 bi-directional ports using standard RJ-45 Cat-X interconnects. The card is port agnostic allowing the same card to be used for either input or output connections. Signal formats supported include DVI-I, DVI-D, HDMI, DisplayPort and VGA. Signals can be extended up to 140m. The card is hot swappable and includes a locking tab to keep the card securely in place. This card supports up to 8 multi-screen displays with a single mouse and keyboard.

- **480-C8X**: I/O Card - Cat-X (XV)
  - The Draco tera 480-C8X card is based on 8 bi-directional ports using standard RJ-45 Cat-X interconnects supporting XV extender connections. The card is port agnostic allowing the same card to be used for either input or output connections. Signal formats supported include DVI-I, DVI-D, HDMI, DisplayPort and VGA. Signals can be extended up to 10km. The card is hot swappable and includes a locking tab to keep the card securely in place.

- **480-S8**: I/O Card - Fiber
  - The Draco tera 480-S8 card is based on 8 bi-directional ports using standard duplex LC fiber optic connections. The card is port agnostic allowing the same card to be used for either input or output connections. Signal formats supported include DVI-I, DVI-D, HDMI, DisplayPort and VGA. Signals can be extended up to 10km. The card is hot swappable and includes a locking tab to keep the card securely in place. 8 SFP modules are included supporting 1310nm wavelengths. Supports 4 MSC.

- **480-S8R1**: I/O Card - Fiber
  - The Draco tera 480-S8R1 card is based on 8 bi-directional ports using standard duplex LC fiber optic connections. The card is port agnostic allowing the same card to be used for either input or output connections. Signal formats supported include DVI-I, DVI-D, HDMI, DisplayPort and VGA. Signals can be extended up to 10km. The card is hot swappable and includes a locking tab to keep the card securely in place. 8 SFP modules are included supporting 1310nm wavelengths. Supports 8 MSC.

- **480-V8**: I/O Card - XV Fiber
  - The 480-V8 card is a high speed fiber bi-directional 8 port card using standard duplex LC fiber optic connections. The card is port agnostic allowing the same card to be used for either input or output connections. This card is recommended for applications where UHDTV (4K) and 5K video signals are used. 8 SFP modules are included supporting 1310nm wavelengths.

- **480-V8-R1**: I/O Card - XV Fiber
  - The 480-V8-R1 card is a high speed fiber bi-directional 8 port card using standard duplex LC fiber optic connections. The card is port agnostic allowing the same card to be used for either input or output connections. This card is recommended for applications where UHDTV (4K) and 5K video signals are used. 8 SFP modules are included supporting 1310nm wavelengths. Supports 8 MSC.

- **480-C8BDG**: Cross Over 1G/3G Bridge-Cat-X
  - The Draco tera 480-C8BDG card is designed to support the data rate bridging between the 1Gbps and 3Gbps extender types. Accepts 1Gbps inputs and allows them to be integrated to 3Gbps extender sets. Includes eight RJ-45 ports for cross-over connections. Allows classic series 1Gbps to 3Gbps cross-over or 1Gbps to 3Gbps ultra series cross-over. NOTE: Cross-over between classic and ultra series are not supported.

- **480-S8BDG**: Cross Over 1G/3G Bridge - Fiber
  - The Draco tera 480-S8BDG card is designed to support the data rate bridging between the 1Gbps and 3Gbps extender types. Accepts 1Gbps inputs and allows them to be integrated to 3Gbps extender sets. Includes eight LC duplex fiber ports for cross-over connections. Allows classic series 1Gbps to 3Gbps cross-over or 1Gbps to 3Gbps ultra series cross-over. NOTE: Cross-over between classic and ultra series are not supported. 8 SFP modules are included supporting 1310nm wavelengths.

- **480-UNI16**: I/O Card - Universal Card
  - The 480-UNI16 card supports specialized signal formats such as SDI and USB 3.0 requirements. The base cards allows up to 8 SFP modules to be installed as either transmitters or receivers. For SDI signals, the card can be installed with SFP fiber or SFP mini-coax modules. Use the high-speed 6Gbps SFP modules to support USB 3.0 signals.

- **480-CTRL2**: Matrix Controller Card
  - The 480-CTRL2 is the control card used for any of the Draco tera enterprise matrix frames. It provides full management of the frame and operates with the Tera Tool software. Included with each control card are connections for local HDMI and USB-HID connections, an RS-232 control port, a Network control port and a Gen Lock mini-BNC for SDI sources. Up to two card can be installed supporting full redundancy. With the Grid Manager Software option, up to 24 frames can be managed as one super matrix supporting over 13,000 connections. Supports LDAP and Active Directory.

- **480-GRD-S8**: I/O Card - Grid 8:1 Card
  - The new dual-port Matrix Grid board replaces the standard I/O board previously used for matrix interconnection and dramatically reduces cabling required between them. With the new board, eight grid lines that previously required eight separate duplex fibers, are established using a single duplex fiber connection.
**KVM Matrix**  
**Draco tera compact**

### 480c Draco compact series

- **K480-08F**: 8 Ports Fiber
- **K480-08C**: 8 Ports Cat-X

- **K480-16F**: 16 Ports Fiber
- **K480-16C**: 16 Ports Cat-X

- **K480-32F**: 32 Ports Fiber
- **K480-32C**: 32 Ports Cat-X

- **K480-48F**: 48 Ports Fiber
- **K480-48C**: 48 Ports Cat-X

- **K480-64F**: 64 Ports Fiber
- **K480-64C**: 64 Ports Cat-X

- **K480-80F**: 80 Ports Fiber
- **K480-80C**: 80 Ports Cat-X

- **K480-48C/32F**: 48 Cat-X + 32 Fiber
- **K480-48C/16F**: 48 Cat-X + 16 Fiber

- Sizes range from 8 ports to 80 ports
- Available in UTP (Cat-X) or Fiber (LC)
- Instantaneous delay-free switching
- FlexPort technology allows for dynamic configuration with any port used as input, output or tie-line
- Real-time experience of full HD video, keyboard, mouse, and tablets
- Full HD resolutions to 1920x1200, 2K, and 4K
- 24-bit color depth
- Supports DVI-D, HDMI, DisplayPort and VGA (DVI-I)
- USB HID, USB 2.0 and USB 3.0 options
- Bi-directional digital audio, analog audio and RS-232/422 options
- Operation via
  - Java-Tool (Graphical web interface) for configuration, operation and maintenance
  - OSD (On Screen Display) for configuration and operation (inband)
  - Keyboard for operation (inband)
  - Serial interface for operation (API)
  - Ethernet for operation (API)
KVM Matrix  Draco tera compact

480c  Draco XV  compact series

- K480-08X: 8 Ports Fiber
- K480-16X: 16 Ports Fiber
- K480-32X: 32 Ports Fiber
- K480-48X: 48 Ports Fiber

- Sizes range from 8 ports to 80 ports
- Offered with same features as standard compact series
- High Speed Fiber supporting resolutions up to 4K (4096x2160)
- Up to 10km with singlemode fiber or 400m with multimode fiber
- HDMI, DisplayPort and DVI-D
- USB HID, USB 2.0 and USB 3.0 options
- Bi-directional digital audio, analog audio and RS-232/422 options
- Redundant power standard

480c  Draco UNI-I/O  compact series

- K480-08U: 8 Ports Uni-slots
- K480-16U: 16 Ports Universal
- K480-32U: 32 Ports Universal
- K480-48U: 48 Ports Universal
- K480-48C/16U: 48 Cat-X + 16 Uni-slots
- K480-48C/32U: 48 Cat-X + 32 Uni-slots
- K480-48F/16U: 48 Fiber + 16 Uni-slots
- K480-48F/32U: 48 Fiber + 32 Uni-slots

- Option slots (Uni-slots) supports SFP modules for 3G-SDI and USB 3.0 multimode fiber
- Offered with same features as standard compact series
- HDMI, DisplayPort and DVI-D computer formats
- HD-SDI, 3G-SDI available in either HD-BNC or Fiber
- 1U Frame for 8, 16, 32, 48 and 2U for 48 Cat-X or Fiber with 16 or 32 Uni-ports
IHSE has been championing high performance, future-proof KVM matrix systems for nearly 35 years and now breaks new barriers in simplifying system design by offering a pre-packaged KVM matrix system for HDMI 2.0 devices. The Draco compact HDMI 2.0 KVM Matrix Switch System is a modular video, audio and USB switching platform that allows full workstation sharing between multiple computers systems supporting resolutions up to 4K@60Hz. Based on IHSE’s instant switching technology, these new bundled matrix systems are designed to meet the extreme bandwidth requirements for sharing multiple UHD and DCI Cinema video signals in the same switch fabric. It is a simple operation to set up and configure the matrix with the on-screen display (OSD) or through the included draco tera tool software for configuration and real-time diagnostics. IHSE’s Flex-port technology provides a huge time savings for system installers who normally have to pre-configure ports to specific I/O requirements.

These bundled HDMI 2.0 KVM switch system includes instant switching technology for incredible speed. Switching between sources is glitch-free and instantaneous thus reducing eye strain and annoying video tearing found with other systems. With the small footprint and ruggedized chassis design, they are the perfect KVM space-saving solution where centralized switching of KVM is necessary. It is especially suited for command and control, broadcast and post-production, energy management, air traffic control, simulation and visualization and other advanced venues where video-rich applications are used.

### 480c Draco compact HDMI 2.0

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>16X8FXV-HDMI4K</td>
<td>KVM SWITCH, 16X8, HDMI 2.0, LC Duplex Fiber, INCLUDED 1RU MATRIX, 16 TX EXTENDERS, 8 RX EXTENDERS, REDUNDANT PWR ON MATRIX, BUILT IN CONTROL, 480-B1 SOFTWARE BUNDLE, USB AND HDMI CABLES FOR CPU SIDE</td>
</tr>
<tr>
<td>32X16FXV-HDMI4K</td>
<td>KVM SWITCH, 32X16, HDMI 2.0, LC Duplex Fiber, INCLUDED 1RU MATRIX, 32 RX EXTENDERS, 16 RX EXTENDERS, REDUNDANT PWR ON MATRIX, BUILT IN CONTROL, 480-B1 SOFTWARE BUNDLE, USB AND HDMI CABLES FOR CPU SIDE</td>
</tr>
<tr>
<td>8X16FXV-HDMI4K</td>
<td>KVM SWITCH, 8X16, HDMI 2.0, LC Duplex Fiber, INCLUDED 1RU MATRIX, 8 TX EXTENDERS, 16 RX EXTENDERS, REDUNDANT PWR ON MATRIX, BUILT IN CONTROL, 480-B1 SOFTWARE BUNDLE, USB AND HDMI CABLES FOR CPU SIDE</td>
</tr>
<tr>
<td>16X32FXV-HDMI4K</td>
<td>KVM SWITCH, 16X32, HDMI 2.0, LC Duplex Fiber, INCLUDED 1RU MATRIX, 16 TX EXTENDERS, 32 RX EXTENDERS, REDUNDANT PWR ON MATRIX, BUILT IN CONTROL, 480-B1 SOFTWARE BUNDLE, USB AND HDMI CABLES FOR CPU SIDE</td>
</tr>
</tbody>
</table>

### KVM Matrix Switch package - extenders and matrix switch included

**HDMI 2.0 495 Series**

**Workstations (Keyboard / Mouse / Display)**

**RX (CON)**

**Compact XV**

**KVM Matrix Switch**

**Sources Computers / Servers**

**TX (CPU)**

**HDMI 2.0 495 Series**

**Features**
- HDMI 2.0 + USB-HID keyboard and mouse
- Fiber LC duplex connections for SM or MM fiber
- Up to UHD (3840x2160@60Hz) and DCI (4096x2160@60Hz)
- 30 bit, 4:4:4 (Deep Color Ready)
- Lossless transmission with no delay or frame drops
- Diagnostic LED’s for quick view of operation status
- Compact size for clutter-free cabling
## KVM Matrix System Bundles

### 480c Draco compact HDMI 1.3

**Draco Compact HDMI 1.3**
The Compact KVM Matrix Switch systems is offered is pre-packaged sizes ranging from 16X8 up to 48X32. Each system includes a full set of transmitter and receiver extenders, a matrix switch and control software.

<table>
<thead>
<tr>
<th>Part Number</th>
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</tr>
</thead>
<tbody>
<tr>
<td>16X8C-HDMI</td>
<td>KVM SWITCH, 16X8, HDMI (1080p), CAT-X, INCLUDES 1RU MATRIX, 16 TX EXTENDERS, 8 RX EXTENDERS, REDUNDANT PWR ON MATRIX, BUILT IN CONTROL, 480-B1 SOFTWARE BUNDLE, USB AND HDMI (1080p) CABLES FOR CPU SIDE</td>
</tr>
<tr>
<td>32X16C-HDMI</td>
<td>KVM SWITCH, 32X16, HDMI (1080p), CAT-X, INCLUDES 1RU MATRIX, 32 TX EXTENDERS, 16 RX EXTENDERS, REDUNDANT PWR ON MATRIX, BUILT IN CONTROL, 480-B1 SOFTWARE BUNDLE, USB AND HDMI (1080p) CABLES FOR CPU SIDE</td>
</tr>
<tr>
<td>48X32C-HDMI</td>
<td>KVM SWITCH, 48X32, HDMI (1080p), CAT-X, INCLUDES 2RU MATRIX, 48 TX EXTENDERS, 32 RX EXTENDERS, REDUNDANT PWR ON MATRIX, BUILT IN CONTROL, 480-B1 SOFTWARE BUNDLE, USB AND HDMI (1080p) CABLES FOR CPU SIDE</td>
</tr>
</tbody>
</table>

### Features
- HDMI 1.3 + USB-HID keyboard/mouse
- Cat-X connections (RJ-45)
- Video resolutions to 1920x1200@60Hz
- Lossless transmission with no delay or frame drops
- Diagnostic LED’s for quick view of operation status
- Compact frame with redundant power
- Tera tool software
- Ethernet and RS-232 control ports

### 480c Draco compact DisplayPort 1.1

**Draco Compact DisplayPort 1.1**
The Compact KVM Matrix Switch systems is offered is pre-packaged sizes ranging from 16X8 up to 48X32. Each system includes a full set of transmitter and receiver extenders, a matrix switch and control software.

<table>
<thead>
<tr>
<th>Part Number</th>
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<tbody>
<tr>
<td>16X8C-DP</td>
<td>KVM SWITCH, 16X8, DP 1.1 (4096x2160@30Hz), CAT-X, INCLUDES 1RU MATRIX, 16 TX EXTENDERS, 8 RX EXTENDERS, REDUNDANT PWR ON MATRIX, BUILT IN CONTROL, 480-B1 SOFTWARE BUNDLE, USB AND DP CABLES FOR CPU SIDE</td>
</tr>
<tr>
<td>32X16C-DP</td>
<td>KVM SWITCH, 32X16, DP 1.1 (4096x2160@30Hz), CAT-X, INCLUDES 1RU MATRIX, 32 TX EXTENDERS, 16 RX EXTENDERS, REDUNDANT PWR ON MATRIX, BUILT IN CONTROL, 480-B1 SOFTWARE BUNDLE, USB AND DP CABLES FOR CPU SIDE</td>
</tr>
<tr>
<td>48X32C-DP</td>
<td>KVM SWITCH, 48X32, DP 1.1 (4096x2160@30Hz), CAT-X, INCLUDES 2RU MATRIX, 48 TX EXTENDERS, 32 RX EXTENDERS, REDUNDANT PWR ON MATRIX, BUILT IN CONTROL, 480-B1 SOFTWARE BUNDLE, USB AND DP CABLES FOR CPU SIDE</td>
</tr>
</tbody>
</table>

### Features
- DisplayPort 1.1 + USB-HID keyboard/mouse
- Cat-X connections (RJ-45)
- Video resolutions to 1920x1200@60Hz / 4096x2160@30Hz
- Lossless transmission with no delay or frame drops
- Diagnostic LED’s for quick view of operation status
- Compact frame with redundant power
- Tera tool software
- Ethernet and RS-232 control ports

### KVM Matrix Switch package - extenders and matrix switch included

![Diagram of KVM Matrix Switch system](image-url)
IHSE’s Draco Compact XV 16x8 Fiber Matrix system for Dual Head display workstations continues to advance the standard for next generation digital AV distribution, delivering the world’s first Dual Head 4K KVM Matrix solution. Based on IHSE’s instant switching technology, the Draco XV 4K matrix system is designed to meet the extreme bandwidth requirements for sharing multiple UHD and DCI Cinema video signals in the same switch fabric.

The Draco compact XV 16x8 Fiber Matrix System is a fixed size KVM system supporting up to 16 Dual Head 4K computers and 8 Dual Head 4K monitors at resolutions up to 4096x2160 60fps, and 4:4:4 color sampling on each display. For systems using extended display setting where the desktop is extended across both displays, IHSE provides internal synchronization for each extender enabling perfect timing for seamless resolutions up to 8192x2160.

IHSE’s Flex-port technology provides a huge time savings for system installers who normally have to pre-configure ports to specific I/O requirements. The Draco compact XV 16x8 switch system includes instant switching technology for incredible speed. Switching between sources is glitch-free and instantaneous thus reducing eye strain and annoying video tearing found with other systems.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>16X8FXV-DPH4K</td>
<td>KVM SWITCH, 16X8, DisplayPort 1.2 (3840x2160@60Hz), DUAL HEAD, LC Duplex Fiber, INCLUDED 1RU MATRIX, 16 TX EXTENDERS, 8 RX EXTENDERS, REDUNDANT PWR ON MATRIX, BUILT IN CONTROL, 480-B1 SOFTWARE BUNDLE, USB AND DP CABLES FOR CPU SIDE</td>
</tr>
<tr>
<td>8X16FXV-DPH4K</td>
<td>KVM SWITCH, 8X16, DisplayPort 1.2 (3840x2160@60Hz), DUAL HEAD, LC Duplex Fiber, INCLUDED 1RU MATRIX, 8 TX EXTENDERS, 16 RX EXTENDERS, REDUNDANT PWR ON MATRIX, BUILT IN CONTROL, 480-B1 SOFTWARE BUNDLE, USB AND DP CABLES FOR CPU SIDE</td>
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KVM Matrix Switch package - extenders and matrix switch included

Part Numbers, Description:

- 16X8FXV-DPH4K: KVM SWITCH, 16X8, DisplayPort 1.2 (3840x2160@60Hz), DUAL HEAD, LC Duplex Fiber, INCLUDED 1RU MATRIX, 16 TX EXTENDERS, 8 RX EXTENDERS, REDUNDANT PWR ON MATRIX, BUILT IN CONTROL, 480-B1 SOFTWARE BUNDLE, USB AND DP CABLES FOR CPU SIDE
- 8X16FXV-DPH4K: KVM SWITCH, 8X16, DisplayPort 1.2 (3840x2160@60Hz), DUAL HEAD, LC Duplex Fiber, INCLUDED 1RU MATRIX, 8 TX EXTENDERS, 16 RX EXTENDERS, REDUNDANT PWR ON MATRIX, BUILT IN CONTROL, 480-B1 SOFTWARE BUNDLE, USB AND DP CABLES FOR CPU SIDE

**Features:***
- DisplayPort 1.2 + USB-HID keyboard and mouse
- Fiber LC duplex connections for SM or MM fiber
- Up to UHD (3840x2160@60Hz) and DCI (4096x2160@60Hz)
- 30 bit, 4:4:4 (Deep Color Ready)
- Lossless transmission with no delay or frame drops
- Diagnostic LED’s for quick view of operation status
- Compact size for clutter-free cabling
**Cross Conversion: KVM / SDI**

**L486 Draco 3G-SDI to KVM**

The IHSE L486 Series is a high performance 3G-SDI to digital video main board for the vario line of extenders. When correlated to other styles of vario extender boards, video formats are converted from 3G-SDI, HD-SDI or SDI formats for conformance to IHSE’s fast-access transport to display either DisplayPort 1.1, HDMI, DVI or VGA signals. SMPTE compliant serial digital inputs from 576p60 up to 1080p60 as well as advanced features for processing deinterlaced signals up to 1080i are supported.

Features
- Accept HD-SDI sources and convert to computer video
- HD-BNC to BNC SFP
- Output resolution to 1920x1080p60
- SDI 4:2:2 input
- Embedded Audio
- Available in Cat-X or Fiber ports
- Compatible with all Classic model extenders 474, 481, 482, 483

**R486 Draco KVM to 3G-SDI**

The IHSE R486 is a high performance digital video to 3G-SDI main board for the vario line of extenders. When correlated to other styles of vario extender boards, digital video formats such as DisplayPort 1.1, HDMI, DVI or VGA are converted to 3G-SDI, HD-SDI or SDI formats compliant with SMPTE serial digital formats. A built-in scaler accepts SMPTE video resolutions from 480i up to 1080p60. The cost efficient 486 supports an array of HD video formats and provides digitally pure video (HDMI, DVI, DP 1.1) to SDI conversion, ensuring no loss in the conversion for both video and embedded audio signals.

Features
- Preview KVM video on SDI displays
- HD-BNC to BNC SFP
- Output resolution to 1920x1080p60
- Digital 4:4:4 to SDI 4:2:2 outputs
- Embedded Audio
- Available in Cat-X or Fiber ports
- Compatible with all Classic model extenders 474, 481, 482, 483
IHSE extends the connectivity of its KVM switching solution infrastructure with the release of new Remote IP CPU and IP CON units built using Intel FPGA devices. Users can now access a secure KVM system directly, over a local area network or across a wider network using IP and cloud connectivity. These new devices provide remote IP connectivity and support virtual machine access as well as providing a highly secure remote IP gateway through an isolated IP interface.

This further extends the potential that IHSE KVM technology delivers by enabling access to contained and restricted KVM installations from remote users over IP connection. As with all IHSE products, security is paramount; integral SecureCore technology maintains total security within the KVM switch and prevents unauthorised access to data carried within the KVM network infrastructure.

**L488 Draco IP CPU Gateway**

The Draco vario Remote IP CPU combines the functionality of a thin client and a KVM extender (transmitter). This space-saving solution is fully compatible with the Draco vario extender and the Draco enterprise and compact matrix switch series. This concept is further improved with IP-based video access to virtual machine servers. Using virtual machines allow users to access a virtual source remotely via the network, like it were an RDP or VNC session. With the L488-BIPVMC extender module, users can access virtual machines directly from their own DMS active workstations via remote desktop protocol (RDP) or perform simple PC maintenance remotely.

**FEATURES**
- Built-in FPGA emulating an IP Thin Client gateway
- Cross conversion between TCP/IP and IHSE Flex Port Protocol
- Compact enclosure
- Available in Cat-X or Fiber ports
- LED status indicators

**R488 Draco IP CON Gateway**

The Draco vario Remote IP CON combines the functionality of an IP-KVM adapter and integrates it as an emulated direct-connect CON extender (receiver). This space-saving solution is fully compatible with the Draco enterprise and compact matrix switch series. With the R488 Series extender module, users can access a KVM matrix system from remote locations using secure connections linked to through a standard TCP/IP connection.

**FEATURES**
- Embedded Linux-based core
- Optional Redundant TCP/IP port
- HDMI 1.3 and USB-HID connections
- Compact enclosure
- Available in Cat-X or Fiber ports
- LED status indicators
**FEATURES**

- Two remote computer sources connected to a single receiver unit
- Connect a local source to the receiver for remote bypass needs
- Available in copper or fiber connection ports
- Support HDMI up to 1080p60 (DVI up to 1920x1200@60Hz)
- Built-in EDID management
- USB-HID for keyboard and mouse
- Optional local HDMI output for transmitter units
- 140m over copper (RJ-45) and 10Km over duplex fiber (LC)

**NOTE:** Systems for Ultra HDMI 2.0 and DP 1.2 for 4K models available. Contact your sales representative for more information.

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The Draco vario HDMI extenders provide ultra-fast switch performance

The vario 481 series extenders support HDMI formats plus USB-HID for keyboard and mouse control signals over Cat 5e/6/7 or fiber optic cabling. The units can extend HDMI video signals with perfect quality up to 10km over fiber or up to 140m over copper cables. The 481 series extenders are packaged in a compact enclosure that can easily be mounted in racks or under the table for out of site requirements. Engineered for reliability and exceptional high resolution image performance, the draco vario uses IHSE USA’s optimized compression technology to deliver perfect transmission of computer video images up to 1920x1200@60Hz resolution, including 1080p/60 and 2K.

The Draco vario HDMI 2-Port KVM System gives users access to three sources

The vario HDMI 2-port KVM system includes dual connection ports on the receiver unit (CON) allowing up to two remote transmitter units (CPU) to be connected and controlled from a single keyboard and mouse connected to the CON unit. Switching to a source is accomplished via fast-access keyboard commands that selects between the two remote sources or bypasses the remote CPU sources and connects to a local computer.

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Get extended separation between workstation and computer sources

The HDMI 2-Port KVM System have a simple transmit and receive design. Available in either copper or fiber transport options, the data is transmitted from the remote computers up to 140Km over copper or up to 10km over fiber. Using IHSE’s high-performance data transport design allows perfect picture quality with near zero latency in mouse movements. The system requires only one cable between each extender to reducing cable clutter and installation time.

The perfect design for remote and local connectivity of keyboard and mouse

On the HDMI 2-Port KVM System receiver unit, an additional HDMI and USB-HID port is included to add a local computer or laptop at the workstation. This becomes a clear advantage for applications where fixed computers need to be located in secure locations and other computers such as laptops can be connected as needed. With a single keyboard command, the laptop can become the primary computer source with access to the full screen monitor, keyboard and mouse.

Add local monitor access when operators need to share sources between locations.

Where users want to share computers between locations, an optional local output can be added to the HDMI transmitters allowing the local user access to the CPU as well as share it with the remote receiver unit. This is perfect for applications where 24/7 operations are required. Operators at the local workstation can work during normal operation hours and then pass it off to a remote operator during shift changes or emergency situations.

Use this system for primary and secondary designs used in redundant path applications.

System designer can also use this KVM system package in a primary and secondary computer-to-workstation concept. In the event of a lost signal on the primary link any worker who inherently requires high performance availability of critical path data, or is involved in mission-critical operations, can immediately be crossed over to a backup system with the built-in signal status design. When the primary signal goes down, the receiver will automatically cross over to the secondary signal. In the case of an interconnection failure the redundant link ensures continuous and uninterrupted communications between the transmitter and receiver unit.

Command and control rooms, network operating centers (NOC’s) and urgent response centers must provide superior service to their users and clients and for these types of systems, IHSE USA’s line of redundant KVM extenders delivers significant value from day one. When you consider the direct and indirect costs of unplanned downtime, it becomes clear that making the investment in KVM redundancy is a smart strategy.
**Draco Accessories**

**Mux up to 8 KVM sources over one fiber with CWDM**

- **CWDM Mux/Demux: K470-4CW-SFP**
  - Multiplex up to 4 devices over a single pair of fiber. Extend distances up to 10km. Supports all vario extenders and IHSE matrix switch cards.

- **CWDM Mux/Demux: K470-8CW-SFP**
  - Multiplex up to 8 devices over a single pair of fiber. Extend distances up to 10km. Supports all vario extenders and IHSE matrix switch cards.

**NOTE:** 18 Channel available upon request contact your sales representative for details.

**Convert legacy VGA devices to DVI sources**

- **8 Port CPU Switch: L484-8VECWR**
  - Connect up to 8 VGA Sources and switch to a single DVI-D output. Includes support for USB 2.0 embedded and Audio. Redundant Cat-X connections and power.

- **8 Port CPU Switch: L484-8VESWR**
  - Connect up to 8 VGA Sources and switch to a single DVI-D output. Includes support for USB 2.0 embedded and Audio. Redundant Fiber connections and power.

- **8 Port CPU Switch: L484-8VEXWR**
  - Connect up to 8 VGA Sources and switch to a single DVI-D output. Includes support for USB 2.0 embedded and Audio. Redundant XV Fiber connections and power.

**Extend cable lengths for CatX or Fiber**

- **CatX to CatX Repeater: 485-BC**
  - Double the cable length from 140m to 240m. Installs in any vario frame style. Available in single or dual configurations.

- **Fiber to Fiber Repeater: 485-BS**
  - Double the cable length from 10km to 20km. Installs in any vario frame style. Available in single or dual configurations.

- **Fiber to CatX Repeater: 485-BX**
  - Convert CatX to fiber for long distance cable conversion. Up to 10km over fiber. Available in single or dual configurations.
Convert Analog and SDI signals to DVI-D

DVI Converter: K238-5V
Convert VGA, RGB, RGBHV to DVI-D for resolutions up to 1920x1200.

DVI Converter: K238-5FBNR
Convert Component Video, VGA, RGB, RGBHV to DVI-D for resolutions up to 1920x1200.

DVI Converter: K238-5VS
Convert YPbPr, CVBS, SDI, VGA, or S-Video to DVI-D for resolutions up to 1920x1200.

DVI Converter: K238-5VE
Convert YPbPr, CVBS, CGA, EGA, MDA, VGA, or S-Video to DVI-D for resolutions up to 1920x1200.

USB Switch Modules for up to 8 CPU units

USB Switch: K476-8U
Manage up to 8 CPU units with a single keyboard and mouse.

USB Switch: K476-4U2
Dual 4X1 USB can manage two sets of four CPU units from a single keyboard and mouse. (One K/M per 4 ports)

USB Switch: K476-4U4T
Allows instant access to 4 CPU with up to two USB 2.0 devices per CPU connection and control through a single keyboard and mouse.

USB Extenders for long distance connections

USB 3.0 Extender K417-7M
Extend USB 3.0 up to 100m over multimode fiber at data rates up to 5Gbit/s.

USB 2.0 Extender K417-5M
Extend USB 2.0 up to 10km over singlemode fiber at data rates up to 480Mbit/s. Supports USB 1.1 and USB 2.0 hosts. 4 ports per device.

USB 2.0 Extender K417-6D
Extend USB 2.0 up to 100m over Cat5e/6 at data rates up to 480Mbit/s. Supports USB 1.1 and USB 2.0 hosts. 4 ports per device.

USB 2.0 Extender K417-6D
Extend USB 2.0 up to 100m over Cat5e/6 at data rates up to 480Mbit/s. Supports USB 1.1 and USB 2.0 hosts. Available in 2 port or 4 port models.
Draco Redundant Connections

- **CPU Unit**
- **CON Unit**
- **KVM Redundancy Option A:** Fully redundant matrix operations
- **KVM Redundancy Option B:** Redundant matrix operations
- **KVM Redundancy Option C:** Redundant point-to-point extender operations
- **KVM Redundancy Option D:** Redundant point-to-point extender operations
- **KVM Redundancy Option E:** Double CON Units for 2:1 options
- **KVM Redundancy Option F:** Double CON Units for 12 options

- **Configuration:**
  - Dual independent CON units with Common Control Unit (CCU)
  - Redundant connections ensure continuous access to CPU in case of CON Unit failure
  - Automatic failover in the event of signal loss
  - Datalink load balancing for minimum latency
  - Single CPU per CON Unit

- **Features:**
  - Automatic switching of signal input
  - Redundant connections for improved reliability
  - Flexible configuration options for diverse applications
**Draco** Software and Control Options

**Draco tera view - IP based monitor & CPU control**

The Tera Viewer software provides IP based preview of video signals passing through Draco tera KVM matrix systems. It is a convenient method of checking and monitoring images, as often required in control and monitoring applications. Live image previews are presented on a separate screen layout which can be configured through the Tera Viewer software as required. Switching of data paths in the KVM switch can also be achieved by means of a drag-and-drop feature of the Tera Viewer software package.

**FEATURES**

- The video signal is converted to IP by the encoder - regardless of the matrix used
- The system allows free arrangement of monitor and selection of computers
- Images displayed on the monitors on the Tera Viewer screen are automatically updated
- Layouts can be saved on the Tera Viewer. A default layout can also be saved on the matrix and will be loaded automatically when opening. Any number of other layouts can be saved locally
- Extended switching can be operated using a touch screen input (e.g. tablet). The operating system must support Java
- Fields of application are mainly control and monitoring scenarios for maintenance and support

**Draco tera tool - KVM control system software**

IHSE’s Draco tera tool GUI provides all tools necessary to build a flexible, intuitive and scalable control and management system – no matter what the environment. Up to 288 users can be configured on a single level or up to 4600 over 16 levels using the optional matrix grid software bundle. Utilizing the latest Java Runtime Engine (JRE), the Draco tera tool provides an easy to navigate GUI interface allowing quick and simple setup. Easy to follow user windows and straightforward pull down menus guide you through system setup. Features include switch management, extender assignment and naming, SNMP setup, SYSLOG and SNTP. The tera tool interfaces to the Draco tera switch hardware via TCP/IP protocol.
With the new freely programmable IHSE (Series 444) keyboard, a keyboard, mouse and keypad can be connected as a single HID device to a KVM system through a single USB port without the need for an additional HID extension. The remaining USB port on the extender CON Unit allows simultaneous connection of another USB HID device. The mechanical and ergonomic keyboard is designed for high demands and heavy duty with up to 50 million keystrokes.

**Features**

- Solid housing made of premium aluminum
- Extremely durable key legends (double-shot keycaps)
- Rugged design guarantees good desk contact to prevent slipping
- Long travel keys with precise switching point
- Concave shaped keycaps
- Function keys for easy control of music and media apps
- USB-mouseport for wired/wireless direct connect
- Expansion option for additional programmable keypads
- Configurable Expert-Features for further adjustments (macros, key scan, color and brightness of the status LEDs, disabling of the windows key)

The Draco OPS 2K60 and the Draco ultra OPS 4K60 KVM extender simplify the installation, operation and management of remote displays in retail signage, airports, train stations, medical, industrial, education and other applications.

A single module inserted into a standard OPS socket delivers Full HD video or 4K60 video and analog audio connectivity, with full interactivity. Single wire (Cat X or fiber) enables remote connection to displays up to 140 m/10 km from the media source. USB-HID is being fully supported, mouse and keyboard are connected to the HID ports. USB 2.0 embedded support ensures the use of the monitor’s touch screen function, if included by the monitor.

For hard-to-access, highly secure installations and better system management the Draco OPS KVM extender delivers the ideal solution. The device is fully compatible to the extenders of the Draco vario series and the signals can be distributed via Draco tera matrices.

**444 Draco programmable keyboard and keypad**

**490 Draco OPS option cards**

Power 
+ 12-19V @ max. 8A (via JAE 80 – Pin)
Link Interface 
2x RJ45 or 2x LC Duplex (Single-mode)
Output Interface (plug socket) 
JAE 80 – Pin (TX25 Plug Connector)
Maximum Resolution
- Draco OPS (series 482): 1920 x 1200 @ 60 Hz
- Draco ultra OPS (series 490): 4096 x 2160 @ 60 Hz
Color Depth
- Draco OPS (series 482): 8 bit / True Color
- Draco ultra OPS (series 490): 10 bit / Deep Color
Service Interface 
Mini-USB (F)
Audio
Analog audio integrated
- Line level interface
- Paralleled bidirectional stereo audio
- Digitized virtually CD quality (16 bit, 38.4 kHz)
- Input impedance: 47 kOhm
- Output impedance: 270 Ohm
Keyboard/Mouse
Fully supported USB-HID, mouse and keyboard connected to extender / HID ports
USB 2.0
USB 2.0 embedded (R474-BXE2 based) with on 50 Mbit/s of bandwidth
Maximum Cable Distance
- Cat X (1G / 3G) up to 140 m
- Single-mode XV (9 µ) up to 5 km
Draco Upgrade Card Options
Draco Enclosure Styles

Custom Design

vario modular units: custom build assemblies

Select an enclosure style

Select a main board style(s)

Select a daughter card style(s)

The Draco vario extender family is designed around a modular concept that lets you build an extender system to fit your specific needs. Enclosure frames are available in 2-bay, 4-bay, 6-bay and 21-bay units. Frame options include redundant power and rack mount kits. All vario (474, 481, 482, 483) models can be fitted to these frame styles. Main board options include DVI, DVI/VGA, HDMI, DisplayPort as well as Dual Head or Dual Link DVI. Daughter card styles include a wide range of features and flexibility to support practically any combination of video and data transports. Select Daughter cards to support USB 2.0, Digital Audio, Analog Audio, RS-232 or RS-422. IHSE USA offers the Build-Your-Own Vario configuration software to make is easy to build the system you need. All main board styles support USB-HID for keyboard and mouse operations and are available in either twisted pair (Cat-X) or fiber option interconnects.

DIY configurator

IHSE USA provides a comprehensive list of part numbers and frame configurations in a easy to use application allowing you to build custom configurations of the vario extenders.

Draco Enclosure Styles

- **Part No: 474-BODY2**: Two bay enclosure, external power supply
- **Part No: 474-BODY2R**: Two bay enclosure, redundant external power supply
- **Part No: 474-BODY2BP**: Two bay enclosure, integral backplane, internal power, redundant PS option
- **Part No: 474-BODY2N**: Two bay enclosure, internal power supply (with external redundant PS option)
- **Part No: 474-BODY2DC-12,-24,-48**: Two bay enclosure, for 12V, 24V, 48V DC power
- **Part No: 474-BODY4**: Four bay enclosure, external power supply
- **Part No: 474-BODY4R**: Four bay enclosure, redundant external power supply
- **Part No: 474-BODY6R**: Six bay enclosure, internal power supply (with external redundant PS option)
- **Part No: 474-BODY6DC-12,-24,-48**: Six bay enclosure, for 12V, 24V, 48V DC power
- **Part No: 474-BODYBP**: Six bay enclosure, internal power supply (power same side as plug-in cards)
- **Part No: 474-BODYBPF**: Six bay enclosure, internal power supply (power opposite side of plug-in cards)
- **Part No: 474-BODY21/4U**: 4RU Rack Mount chassis with 21 slots, setup for redundant power
Find it on the website
www.ihseusa.com

Check out our website for the latest in product news, the latest events where you can see live demonstrations and the latest in software and documentation support.