

ihse.  
USA

# Government Solutions

KVM Secure Core Display Management Systems

[www.ihseusa.com](http://www.ihseusa.com)



2019

A US Small Business



GSA Contract GS-35F-075BA



# KVM SecureCore<sup>(tm)</sup> Solutions

## Get the right products with unlimited FREE technical support.

For more than 35 years, IHSE has been providing global solutions for federal, state, and local governments with a wide array of KVM products for extending and switching computer data. Need secure TAA compliant products for the US Markets? You will find them at IHSE USA. Many NATO countries have already standardized on IHSE KVM - a move that has become increasingly important as countries modernize their communications capabilities for interoperability.



### Free, Live, 24/7 Tech Support

- In the U.S. Call us at 732-738-8780
- e-mail us at [info@ihseusa.com](mailto:info@ihseusa.com)
- Our U.S. based technicians are located in New Jersey, USA
- 24/7 Tech support carries over to our offices in Germany and Singapore



### Same Day Shipping on most items

- In-stock items can ship same day
- Free standard shipping for GSA
- Call for stocked items
- Out-of-stock items can be expedited with express service



### Custom Design / Special Requirements

- Need something special? Call us with your requirements and we can work with you to customize our products to fit your needs.



### No Hassle Warranty

- Products include a full 2 year warranty on all extenders and switch products
- Extended warranties available
- Service Agreements available



### Cross Reference with other KVM Systems

- Contact your sales representative to check interchangeability and cross-reference part numbers for other manufactures KVM systems.
- Offering trade-in / trade-up incentive program specials. Call for more info



### We make it easy to order

- Call 732-738-8780 to place an order
- email us at [info@ihseusa.com](mailto:info@ihseusa.com)
- fax to: 732-631-0121
- mail to:  
IHSE USA, LLC  
1 Corporate Drive  
Cranbury, NJ 08512



# About IHSE USA

## Audio & Video Solutions Anytime, Anywhere

IHSE started business producing private label KVM products to many large box solution providers and has now grown to be a world recognized leader in KVM solutions. As the company has grown customers have come to recognize the IHSE name as the go-to company for high quality KVM solutions.

We offer a comprehensive portfolio of KVM extender and switch solutions ranging from legacy VGA to the latest 4K60 high definition video and beyond - all focused on security and interoperability.

IHSE not only leads the market in KVM systems for Government solutions, but also provides systems for some of the most successful commercial organizations around the world. From basic conference room switching to full scale live video mobile production trucks for sharing replay servers - IHSE has the right solution for you.

We will work with you and your goals in mind to achieve immediate cost reductions, increase network reliability, optimize performance, and ensure maximum network and application security. And we'll do it quickly, affordable and responsibly ... the same way you strive to serve your customers.

Military,  
Government  
Agencies and  
Institutions  
world-wide  
depend on IHSE  
for innovative,  
cost effective  
solutions for  
day-to-day and  
mission critical  
operations



CONTRACT NO. GS-35F-075BA  
CAGE CODE: 5LQY5  
DUN # 830649062  
CATEGORY: 70  
TAX ID: 26-4224375



leidos

NORTHROP GRUMMAN

LOCKHEED MARTIN

THALES



Raytheon

SAIC

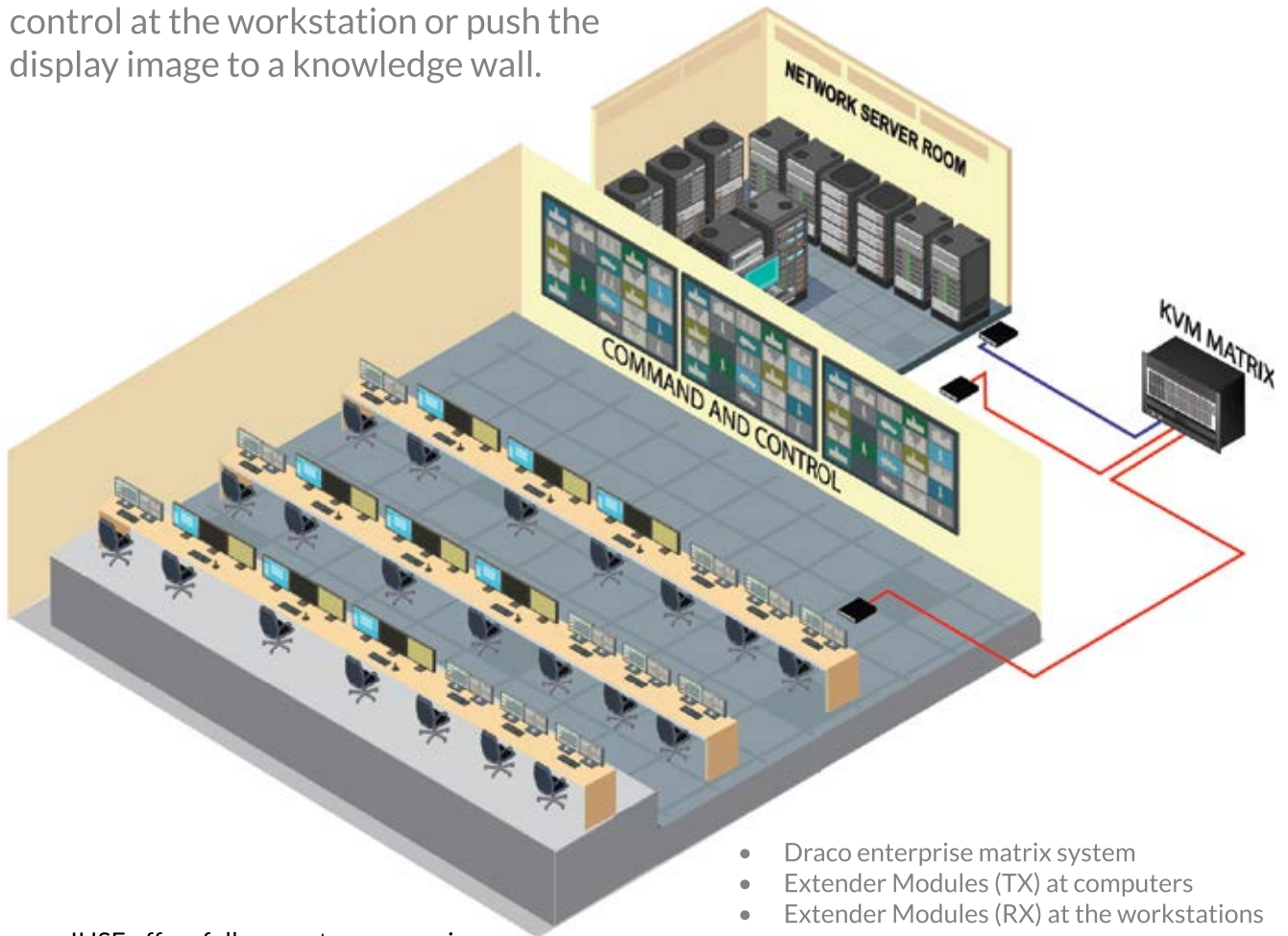
Honeywell

Los Alamos



# Secure KVM for Command & Control

When computers are located in the network server room via a KVM matrix system, any user in the control room can quickly select the desired computer source by utilizing keyboard hot keys to take full control at the workstation or push the display image to a knowledge wall.



## IHSE offers full computer access via KVM Secure Core Technology

In today's Command Centers, systems are overwhelmingly computer-based, and normally housed in a network server room with human-machine interaction occurring through computer graphical user interfaces (GUI).

The majority of the equipment that was once housed inside consoles is no longer in use, and their legacy hardware is now computer-based, and are housed in the server room. These computer-based systems offer the ability to interact from any location that provides KVM connectivity, freeing operators from the need to be in close proximity to the systems. Many organizations

remove even workstation computers from operators' environments, choosing instead to house them in a server room and provide access remotely from the operators' desktops through a shared display management system using KVM (Keyboard/Video/Mouse) extension technology.

Although many organizations are utilizing full network connectivity in the command center, they are realizing that this is both a security risk as well as operationally inefficient as high resolution video systems consume more bandwidth than traditional lower bandwidth VGA systems. Housed in a Server rooms, computers are more reliable, last longer, are easier to service, and are secured from physical access by malicious individuals when using a KVM switch system.

# Secure KVM Matrix Switching

## Draco tera enterprise Matrix Switch for Peripheral Sharing Devices

Flexible, instantaneous crosspoint switching and peripheral extension of high definition video for situational awareness and command and control rooms



48 Ports



80 Ports



160 Ports



288 Ports



576 Ports

- 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

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
- Modular platform with up to 576 bi-directional ports
- 8 port cards auto configurable for input or output devices
- Extend signals up to 140m over CATx or up to 10km over fiber
- Supports switching 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 Composite Video (NTSC) and SDI
- Switches in less than one frame
- Hot key switching enables instant access to critical data
- Software upgrades for remote access over IP networks
- N+1 power supply supported
- Grid up to 24 frames managed through a single control system
- Bi-directional digital audio, analog audio and RS-232/422 options

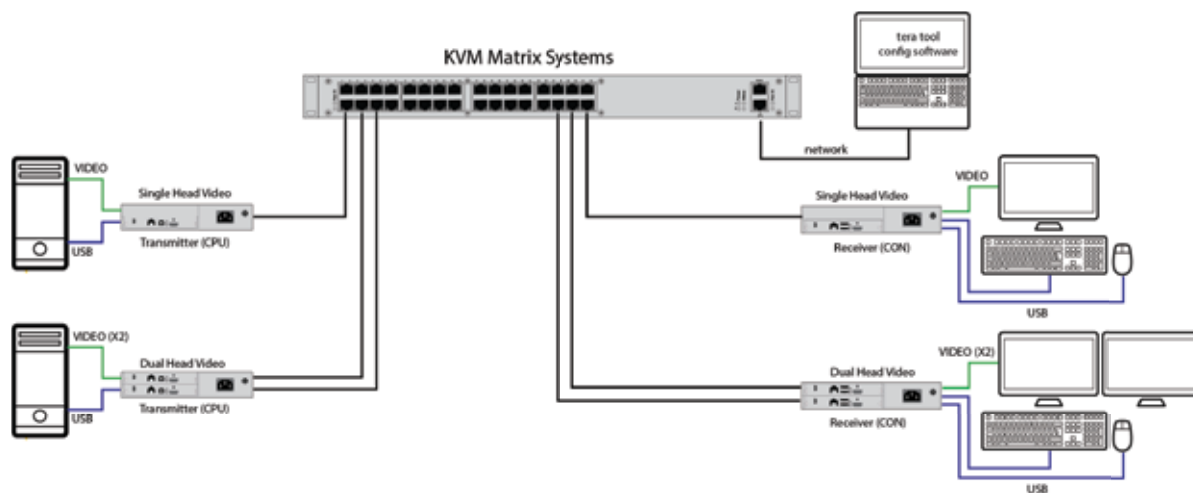


# Draco compact KVM matrix systems

The Draco tera compact switch with its form factor of max. two 19" rack units is specifically designed for smaller and mid-sized KVM requirements using the same technology found in the larger Draco tera enterprise matrix systems. Based on a small footprint package, the cost-effective frame can be used with all of the Draco extender modules creating the world's widest selection of KVM solutions. It is a simple operation to set up and configure the matrix with the On-Screen Display (OSD) or through the feature-enhanced Draco tera Tool.

Extenders can accommodate a variety of signal formats and the Draco tera compact auto-senses the individual units through any available port on the chassis. By simply connecting the extender to the chassis, the internal firmware will recognize and auto-configure the port as a CPU or console device. This Flex-Port technology provides a huge time saving for system installers who normally have to pre-configure ports to specific I/O requirements. The system includes instant switching technology for all the popular formats up to 4K resolutions at 60 Hz and 10 bit color depth (4:4:4).

With 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, the Draco tera compact is the perfect KVM space-saving solution where centralized switching of KVM is necessary. It is especially suited for factory floor automation control systems, production studios, OB Vans, and command and control environments.

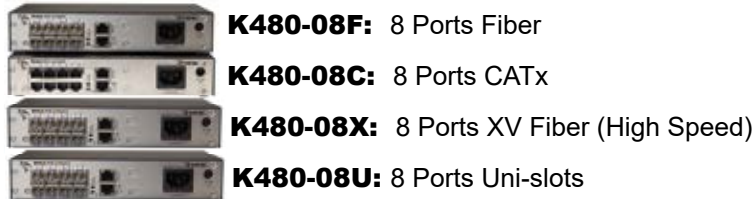


Compact switch with extenders for single and dual display options

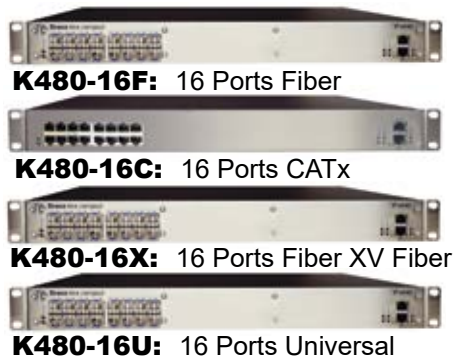
# Secure KVM Matrix Switching

Draco tera compact Matrix Switch for peripheral sharing devices

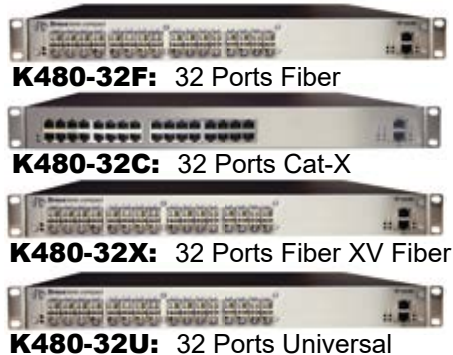
Fixed-size, instantaneous crosspoint switching and peripheral extension of high definition video for situational awareness and command and control rooms. Available in 8 to 80 ports.



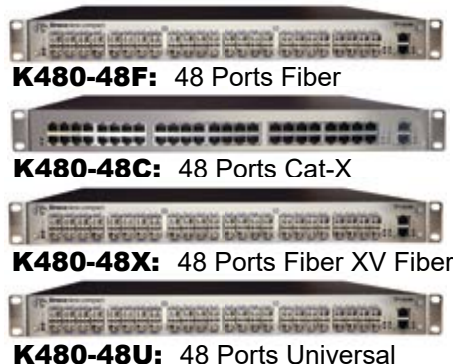
## 1RU - 16 Ports



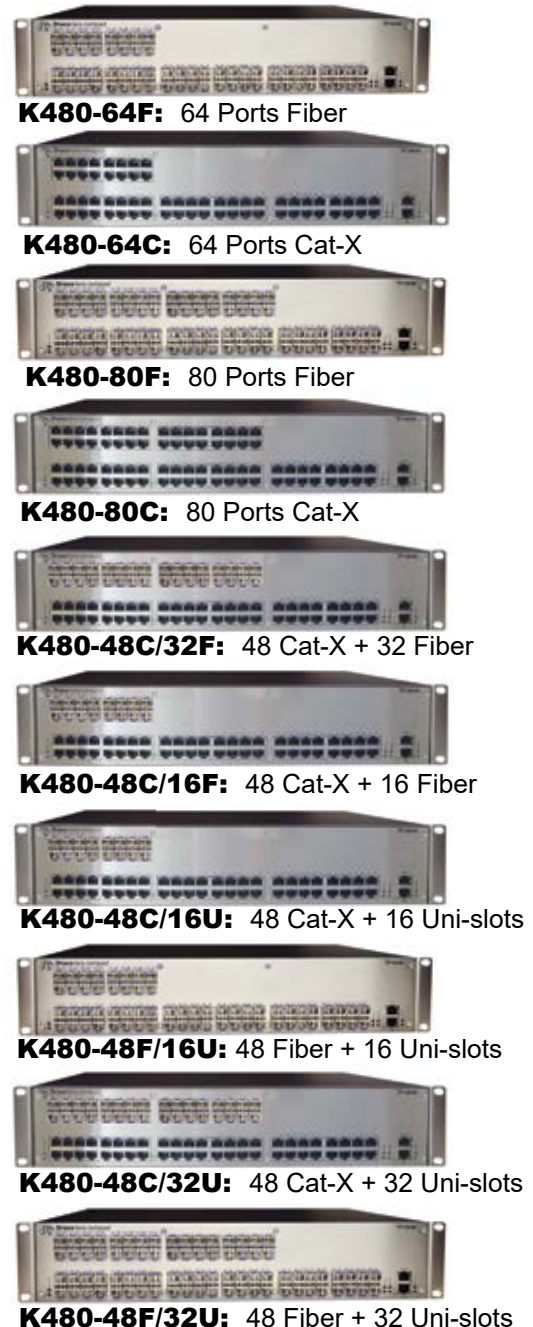
## 1RU - 32 Ports



## 1RU - 48 Ports



## 2RU - 64 or 80 Ports



# Ultra Series: Modular Extenders



KVM Extenders for point-to-point connections or end-points for KVM matrix systems

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 CATx 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).

## HDMI



- 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

### DRACO ULTRA - 491 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 2160p30 video resolution along with latency-free USB for keyboard and mouse

## DVI-D



- 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

### DRACO ULTRA- 492 SERIES

The Draco ultra 492 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.

## DisplayPort 1.1



- 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

### DRACO ULTRA - 493 SERIES

The 493 Series Draco ultra 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).

## DVI-I (VGA)



- 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

### 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.

## HDMI 2.0 (4K)



- 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

### DRACO ULTRA - 495 SERIES

The 495 Series Draco ultra for HDMI 2.0 enables users to operate CPUs from a remotely located workstation – including DisplayPort monitor, keyboard, and pointing device – over a fiber connection. The 495 Series supports the transfer of fully digital video in 4K resolutions up to 4096 x 2160 and 3840 x 2160 at a real 60 hertz refresh rate and full color depth (30 bit, 4:4:4).

## DisplayPort 1.2 (4K)



- Up to 4096X2160p 60Hz
- Option for 1080p240Hz
- 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 - 490 SERIES

Connecting a 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 60-Hz refresh rate and full color depth (30-bit, 4:4:4). Optional, up to 1080p240Hz supported for high frame rate extender requirements.

Extenders can support 5K/8K as dual port models when combined with IHSE's synchronized firmware option.



# Vario Series: Modular Extenders



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

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 (CATx) 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.

## 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.x (8 bit, true color)
- 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

## 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-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



**optional NTSC/PAL for legacy cameras**

### 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 CATx. This capability allows users to view content on a wide range of monitors without needing dedicated SDI displays and extra cables for SDI extension.

# Combine composite video with KVM

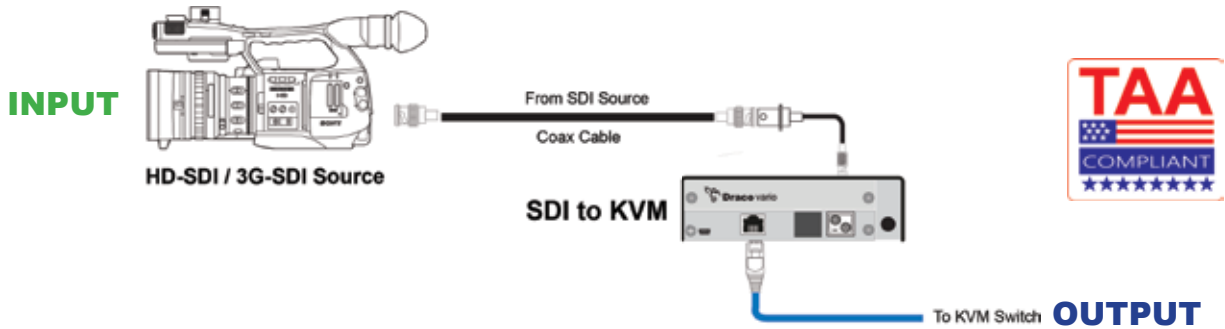
## L486 Draco serial digital devices to KVM

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 video 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. Legacy NTSC video input conversion available



### Features

- Accept HD-SDI sources and convert to computer video
- Optional NTSC / Analog Video SFP
- HD-BNC connection (adapter to std. BNC required)
- Output resolution from 576p to 1920x1080p60
- SDI 4:2:2 input standard
- Embedded Audio
- Available in CATx or Fiber ports
- Compatible with all Classic model extenders 474, 481, 482, 483



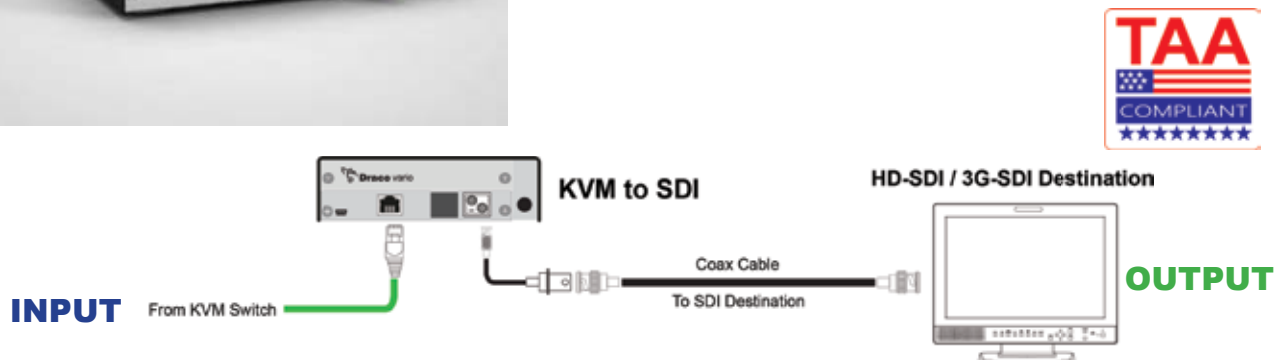
## R486 Draco KVM to serial digital video

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 CATx or Fiber ports
- Compatible with all Classic model extenders 474, 481, 482, 483



# Integrated KVM over networks

IHSE extends the connectivity of its KVM switching solution infrastructure with the release of new Remote IP CPU and IP CON network gateways. 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 IP CON devices provide remote user access over a network connection and the IP CPU devices support remote access to computer sources via RDP as well as supporting virtual machine access.

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 KVM SecureCore technology maintains total security within the KVM switch and prevents unauthorized access to data carried within the KVM network infrastructure.

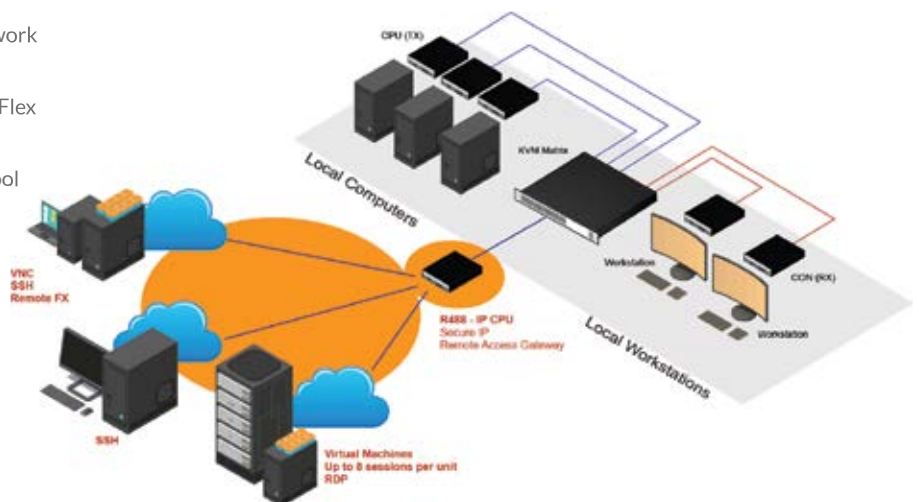
## L488 Draco CPU: Connecting network CPU devices



The Draco vario Remote IP CPU combines the functionality of a gateway 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.

### FEATURES

- Emulated IP Thin Client gateway allows network devices to connect to a baseband KVM system.
- Cross conversion between TCP/IP and IHSE Flex Port Protocol
- Compact enclosure fits all vario frame types
- Configurable network parameters via tera tool control manager
- LED status indicators



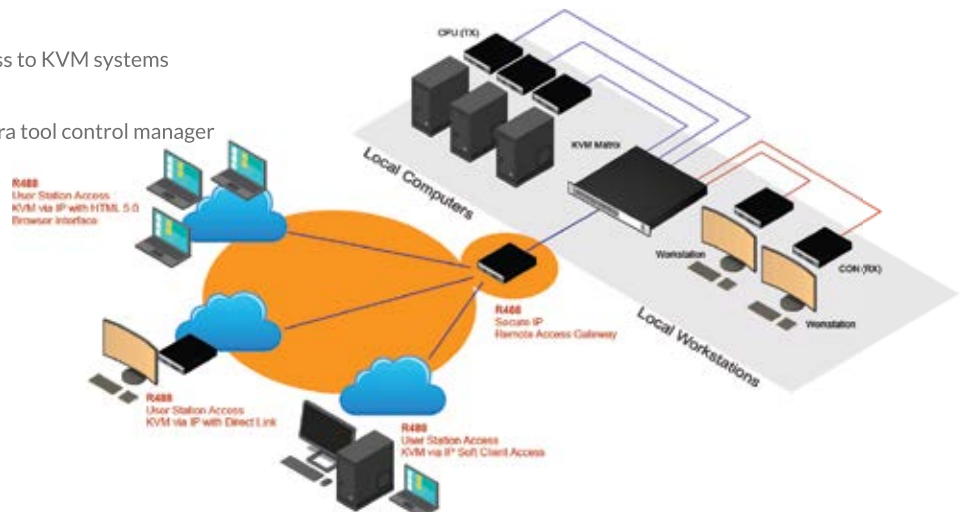
## R488 Draco CON: Gateway allowing user remote access



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.

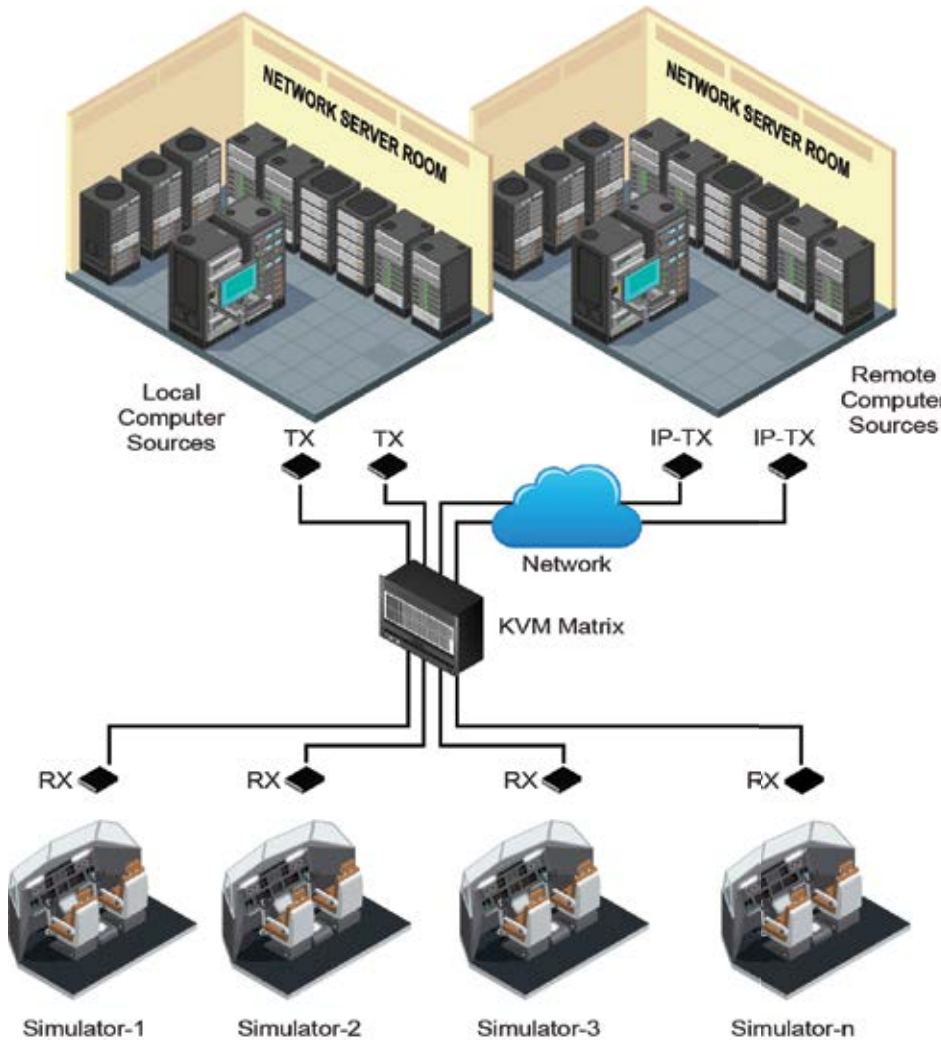
### FEATURES

- Emulated gateway for remote user access to KVM systems
- Optional Redundant TCP/IP port
- Local connections for monitoring
- Configurable network parameters via tera tool control manager
- LED status indicators



# Secure KVM for Modeling & Simulation

The goal is to create a global, integrated ISR management network where information is rapidly collected, shared, exploited and distributed among military platforms. Such a network transforms data into knowledge that warfighters, commanders and government leaders can use to make rapid, effective decisions.



## WHY SIMULATION TRAINING IS SUPERIOR

### Flexible

Simulations recreate conditions or scenarios that would be difficult or impossible to replicate in the real world.

### Safety

Simulations enable you to train your employees in a harmless virtual environment thus eliminating the risk of accidents. This enables inexperienced employees to start operating virtual machinery immediately where they can master their skills without the risk of accident or injury.

### Accidents

Any mistakes made while using a simulation are cost free in a virtual environment this eliminates the risk expensive lawsuits.

### Cost

Training your employees using simulations enables you to keep your expensive machinery productive in the work environment. Additionally, multiple copies of the software can be used simultaneously which reduces the time and cost needed to train numerous employees.

With the rise of computers, simulation models have emerged beside the more traditional statistical and mathematical models as a third pillar supporting Modeling and Simulation (M&S) and Test and Evaluation (T&E) requirements. Engineering-level computational tools provide high-fidelity, realistic simulations of DoD and commercial systems in stand-alone and distributed real-time network architectures.

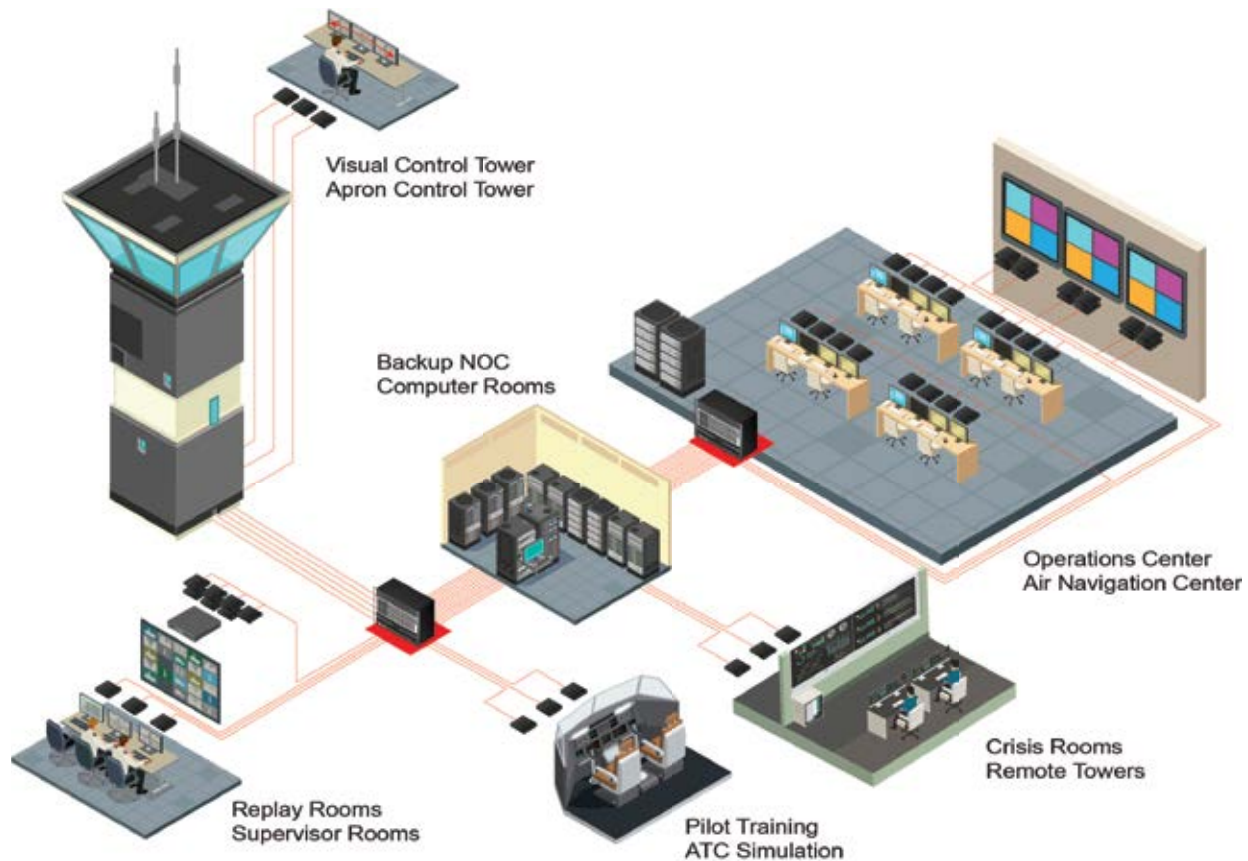
By helping our military achieve information superiority over the enemy, this new approach will also shorten the time from when a threat is detected to when it's resolved from hours currently to single-digit minutes. Technicians and Engineers can rapidly design, implement and analyze operational

scenarios using a customized mix of virtual airborne and space-based intelligence, surveillance and reconnaissance (ISR) sensors; command and control elements; and simulations of precision strike platforms.

Today, these computer-based systems require more security while maintaining a wider range of sharing across multiple locations. Organizations are now using distributed methods of sharing – and this is where IHSE's KVM Secure Core™ provide access to the simulator or test bench through shared display management systems using KVM (keyboard, video, mouse) switching and keyboard hot-key source sharing.

# Secure KVM for Air Traffic Management

Information is crucial to safe and efficient air operations. IHSE KVM technology transports real-time data throughout the entire air traffic control and management process, enhancing safety and operational efficiency from take off to landing, and beyond.



## Bringing you the tools for a more efficient Air Traffic Control Tower

IHSE's reputation for excellence and quality reflect the safety and reliability standards for German engineering. Our products are built to suit all environments of air traffic environments – from regional to international airports- and can work independently or as an integrated part of the overall airport computer management system. All IHSE systems give the customer the flexibility to add modules when needed for future expansion.

## Exceptional system reliability with built-in redundancy

Some airports are large; some small and some growing. The IHSE products for ATC can be sized and scaled to suit almost any environmental situation. For small airports, our Draco compact series of KVM matrices are a very cost effective solution. For larger airports with increased traffic control requirements, our modular Draco enterprise KVM matrix solutions provide a modular design that can grow or expand as your needs do – without the need to remove or replace installed equipment. Our products are designed to support critical work flow environments with options for redundant power, redundant path extensions and redundant controllers.

## Bringing multiple disparate systems under one keyboard and mouse

In a traditional ATCT, a large number of disparate systems are installed that function as stand-alone devices. These systems are frequently obtained from different manufactures equipped with their own displays and input interfaces. This normally forces the Air Traffic Controller to interact with multiple systems and keyboards. With IHSE's U-Switch and matrix switch solutions, it becomes much easier to manage these systems under a single keyboard and mouse. This reduces desktop clutter as well as creates a superior work flow to manage multiple screens and operations under one access point.

## Design systems that fit your specific configuration

When merging various data systems under a centralized KVM switch environment, the Draco tera compact and enterprise series of matrix switchers establish the perfect focal point for video and data distribution to the workstation area.

# Extenders for hardened environments

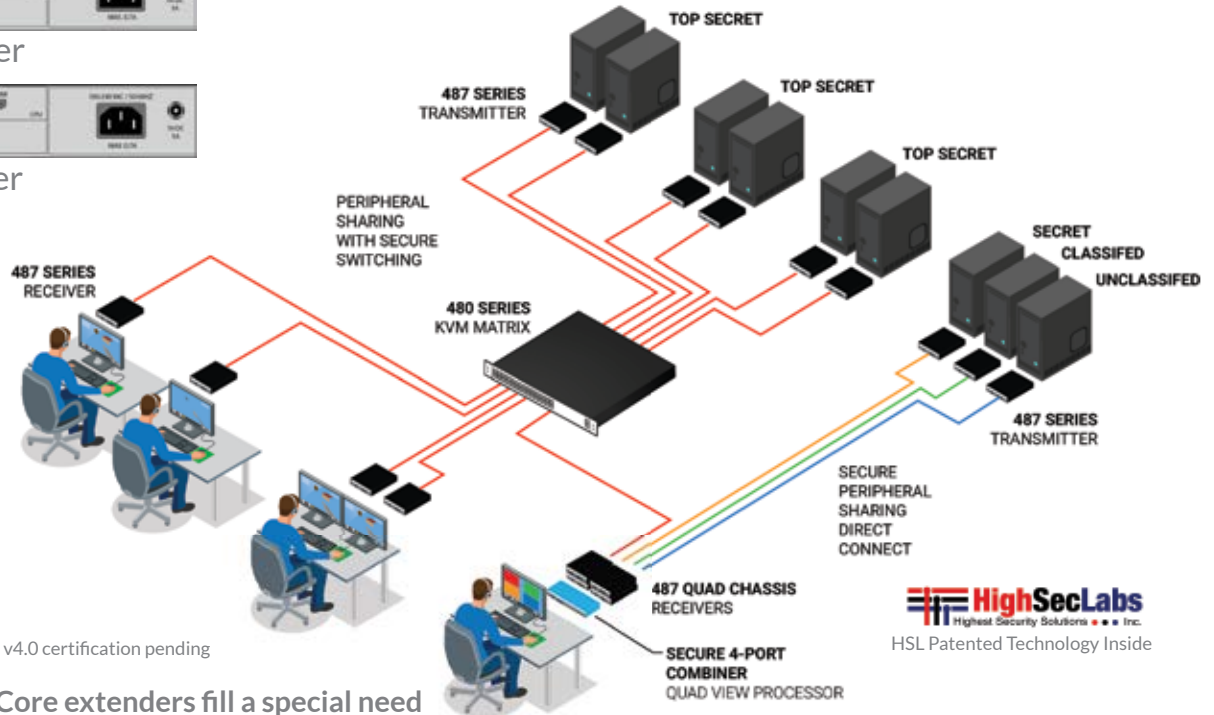
## SECURE DESKTOP ACCESS TO COMPUTERS WITH MAXIMUM DATA SECURITY CONNECTIVITY



RX Extender



TX Extender



Compliance for NIAP v4.0 certification pending



**KVM Secure Core extenders fill a special need in computer sharing for users, such as those in law enforcement, military, or healthcare, who need to provide maximum user data security when switching between connected sources.**

Offering the latest in cybersecurity best practices, the IHSE 487 Series KVM Secure Core™ extenders allow operators the confidence of controlling multiple systems using the same set of peripherals (keyboard, monitor, and mouse) without exposing confidential data to attack. This TAA-compliant-secure KVM extender system is ideal for use in network environments that demand rigorous cybersecurity provisions—including government, military, and healthcare applications.

An integrated KVM Secure Core™ matrix switch dramatically simplifies workstation setup with auto-sensing ports, which seamlessly merge DisplayPort, HDMI, and DVI display standards. And thanks to its support for the most current and many upcoming display resolutions, an IHSE Secure Core KVM switch represents a long-lasting, high-ROI investment that will scale with user demands for years to come. Secure Core KVM switches protect desktop access to reduce risk in government and military environments where security is imperative, as well as any other information-sensitive applications that require safe and secure switching between computers on different security level network.



Cybersecurity threats, data leakage, and managing classified and unclassified data are all reasons to trust the leader when it comes to accessing and managing your data across multiple computers. With over 35 years of experience in the KVM business, we know how to prevent cyber threats and keep your data secure.

**The 487 series extenders are designed specifically to the stringent specifications of the U.S. government and will comply with the requirements of the NIAP/Common Criteria Protection Profile for Peripheral Sharing Devices Version 4.0 allowing users to switch safely and securely between computers operating at different classifications levels.**

Both, CPU and CON devices are equipped with signal isolation for future compatibility with NIAP PSD PP 4.0 with integrated known & reliable certified components of security specialist HighSecLabs (HSL). This makes sure there is up to date security against leaking data. In combination with Draco tera matrix switches and Draco vario extenders, even a secure setup of combined classified and unclassified endpoints can be achieved. Since isolation is available at both ends data leakage or eaves dropping is impossible even, if there is a crossover of secured devices and unsecured devices used for commercial reasons.

# Extender Enclosures for any setup



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.

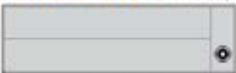
Try our online product selector and enclosure configurator.  
<https://www.ihseusa.com/downloads/vario-design-tool.html>

Use your QR reader to access the online configurator

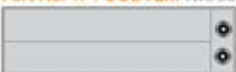


- 5.7 in x 5.8 in x 1.7 in  
 (145 mm x 147 mm x 41 mm)  
 mounting kit: 474-VRMK  
 1RU rack kit: 474-2RMK


**Part No: 474-BODY2:** Two bay enclosure, external power supply


- 5.7 in x 5.8 in x 1.7 in  
 (145 mm x 147 mm x 41 mm)  
 mounting kit: 474-VRMK  
 1RU rack kit: 474-2RMK


**Part No: 474-BODY2R:** Two bay enclosure, redundant external power supply


- 8.7 in x 5.8 in x 1.7 in  
 (221 mm x 147 mm x 41 mm)  
 mounting kit: 474-2NRMK

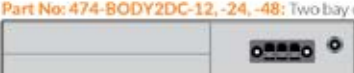
**Part No: 474-BODY2BPF:** Two bay enclosure, integral backplane, internal power, redundant PS option


- 8.7 in x 5.8 in x 1.7 in  
 (221 mm x 147 mm x 41 mm)  
 mounting kit: 474-2NRMK


**Part No: 474-BODY2N:** Two bay enclosure, internal power supply (with external redundant PS option)


- 8.7 in x 5.8 in x 1.7 in  
 (221 mm x 147 mm x 41 mm)  
 mounting kit: 474-2NRMK


**Part No: 474-BODY2DC-12, -24, -48:** Two bay enclosure, for 12V, 24V, 48V DC power


- 11.5 in x 5.8 in x 1.7 in  
 (293 mm x 147 mm x 41 mm)  
 1U rack kit: 474-4RMK


**Part No: 474-BODY4:** Four bay enclosure, external power supply


- 11.5 in x 5.8 in x 1.7 in  
 (293 mm x 147 mm x 41 mm)  
 1U rack kit: 474-4RMK


**Part No: 474-BODY4R:** Four bay enclosure, redundant external power supply


- 17.4 in x 5.8 in x 1.7 in  
 (442 mm x 147 mm x 41 mm)  
 1U rack kit: 474-6RMK


**Part No: 474-BODY6R:** Six bay enclosure, internal power supply (with external redundant PS option)


- 17.4 in x 5.8 in x 1.7 in  
 (442 mm x 147 mm x 41 mm)  
 1U rack kit: 474-6RMK


**Part No: 474-BODY6DC-12, -24, -48:** Six bay enclosure, for 12V, 24V, 48V DC power


- 17.4 in x 9.8 in x 1.7 in  
 (442 mm x 250 mm x 41 mm)  
 1U rack kit: 474-6RMK

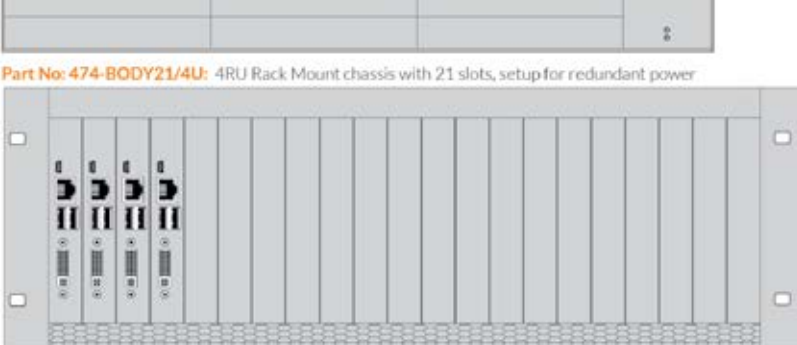
**Part No: 474-BODY6PF:** Six bay enclosure, internal power supply (power same side as plug-in cards)


- 17.4 in x 9.8 in x 1.7 in  
 (442 mm x 250 mm x 41 mm)  
 1U rack kit: 474-6RMK

**Part No: 474-BODY6P:** Six bay enclosure, internal power supply (power opposite side of plug-in cards)


- 19.0 in x 18.2 in x 6.9 in  
 (482 mm x 462 mm x 176 mm)  
 4U frame

**Part No: 474-BODY21/4U:** 4RU Rack Mount chassis with 21 slots, setup for redundant power





## Warranty:

Products sold by IHSE are manufactured for long term performance and reliability. IHSE warrants these products against defects and workmanship for a period of two years.

## Services:

Customer support is available 24 hours a day, 7 days a week by calling 1-866-721-0744.

## International customers call

+1 (732) 738-8780  
support@ihseusa.com

In addition to our standard customer warranty service support, we offer extended warranties. For quotes or additional information call +1 (732) 738-8780

On site factory training or remote web-based training is available for control system operations, technical, and maintenance training. Contact our technical support group for additional information.

Spares can be ordered through your area sales representative or contacting our inside sales team.

# Government Purchasing Options

IHSE offers several purchasing options designed to meet your specific requirements.

## GSA Schedule Purchase

If your organization is authorized to purchase from the General Services Administration (GSA) Schedule, the IHSE USA GSA Schedule offers a fast, easy purchasing path that eliminates time-consuming bids.

## Open Market Purchases

If you prefer to purchase on the open market, competitive pricing is available through IHSE USA's authorized channel partners program. Our channel partners can offer you affordable pricing as well as the benefits of local service and repair.



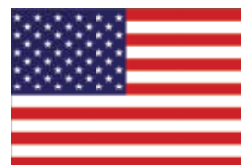
CONTRACT NO. GS-35F-075BA  
CAGE CODE: 5LQY5  
DUN # 830649062  
CATEGORY: 70  
TAX ID: 26-4224375



Find it on the  
**website**

[www.ihseusa.com](http://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.



IHSE USA, LLC  
US Small Business



Manufactured in  
Germany

## ORDERING INFORMATION

### IHSE USA LLC

1 Corporate Drive, Suite F  
Cranbury, NJ 08512, USA  
Tel: +1.732.738.8780  
[www.ihseusa.com](http://www.ihseusa.com)  
[info@ihseusa.com](mailto:info@ihseusa.com)

### IHSE GmbH

Benzstraße 1  
88094 Oberteuringen  
Germany  
Tel. +49 7546 9248-0  
[info@ihse.de](mailto:info@ihse.de)

### IHSE GmbH Asia Pacific Pte Ltd

158 Kallang Way, #07-13A  
Singapore 349245  
Tel. +65 (6841) 4707  
[info@ihseapac.com](mailto:info@ihseapac.com)