DIGITALKW

The Best Copper and Fiber KVM Solution in the World







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Where German Engineering Meets HD-KVM

scanmagnetics com

Information



WHO WE ARE / COMPANY PROFILE

Industrial Hardware and Software Engineering (**IHSE**) has more than 20 years of experience designing and manufacturing high quality extenders and switchers for KVM and Computer Video Signals. We are proud of our history of satisfied customers and continue to expand our technology and industry experience to ensure our customers are provided superior quality and unquestionable statisfaction.

WHAT DRIVES US / QUALITY GUARANTEE

Our passion is to gurantee customer statification with the most innovation solutions. It is our attention to detail and the demand for high quality that makes our devices the best in the world. All of our products are 100% inspected before leaving our facility. This drive to insure quality products to all of our customers has been the secret to our success.

WHAT WE OFFER / PRODUCT PORTFOLIO

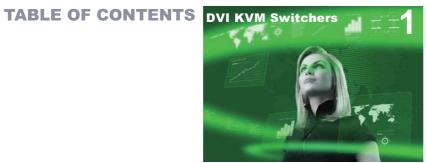
Extenders: With extenders, computers can be separated physically from the attached peripherals, such as keyboard, mouse, monitor and printer for distances of up to 10 km.

Splitter and switches: These are monitor, keyboard and mouse switches, to operate CPUs from multiple places or to operate multiple CPUs from a single workstation.

KVM switches / crosspoint switches: Since 2007, as one of the first manufacturer, we offer the Draco minor, a crosspoint and KVM Switch for DVI signals. Thereby, connected extenders can be installed up to 10 km away. The Draco major is a real matrix switch for 16 Users and up to 1024 CPUs. The Draco tera is the first real matrix DVI switch for the Enterprise with up to 288 dynamic ports for up to 287 users to 1 CPU or 1 user to 287 CPUs over copper and/or fiber.

As part of our goal to provide full service satisfication, IHSE can provide system consultation for your project planning requirements at no additional cost. With our in-house manufacturing capabilities, lead times are much shorter on standard and custom orders. We offer on-site training options or you can take advantage of our factory training facility for the most in-depth understanding of system managment. Our reputation is based on quality, but in the event of damaged or non-functional devices, we offer quick-turn on repair parts and technical support.





Digital KVM Switchers



Digital KVM Extenders



Video Splitters



USB Extenders Modules



Accessories and Cables



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The Best Copper and Fiber KVM Solution in the World





Media Extender CATx / DVI / USB

- Uncompressed video transport
- User selectable DDC
- Optional USB 2.0
- Resolution to 1920X1200



Media Extender Fiber/DVI/USB

- KVM over multimode fiber
- Extend up to 400m
- Singlehead or Dual Head
- USB (HID) or USB 2.0



32 CPU and 16 Console KVM or Crosspoint Switcher

- Copper and Fiber in the same switch
- CATx, Multimode and Singlemode without media converters
- Transparent High Speed USB 2.0 Switching
- Digital or Analog Audio with Serial Options
- Module based Architecture for Flexible Configuration
- DVI-I (VGA) legacy video support
- On Screen Menu & Web Interface for Control
- Compliant with AMX, Crestron and other external controllers
- Serial / IP / IR control
- 2U Rack Mount Frame



Draco Extenders

Extenders for DVI + USB

- DVI-D Input / Output
- Supports USB HID devices
- CATx or Fiber Cable Interfaces
- Seamless WACOM support
- Optional VGA (DVI-I) and USB 2.0
- Optional Dual Head or Quad Head Video



8 Port KVM or Crosspoint Switch

- max, resolution to 1920X1200 @ 60Hz
- USB Keyboard and Mouse
- Supports USB-HID or USB 2.0 devices
- Optional support for Audio + Serial
- Data over CATx, MM fiber, or SM Fiber
- Supports Dual-Head and Quad-Head Devices
- Up to 3 units in 1RUDraco

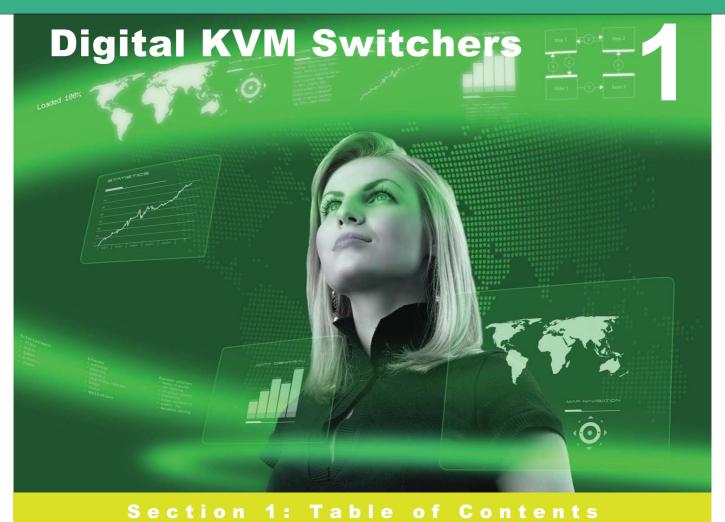






160 Chassis in 9U 288 Chassis in 13U





Draco tera - 480 Series

Draco tera - 480 Series Up to 288 ports expandable modular KVM and Video Matrix Switch

Draco major - 474 Series Up to 32x16 ports modular expandable KVM and Video Matrix Switch

Draco minor CATx / Fiber - 459 Series 8-Port Multifunctional - Multiplex Repeater, Crosspoint Switch, Single-/Dual-Head KVM Switch

Switching Electronics Draco minor - 459 Series Draco minor switching components

Digital KVM Switches480 Series Enterprise HD-KVM Switches



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Draco tera

Product Information

The Draco tera is the perfect enterprise, high performance, modular routing system for complete signal distribution of high definition video, audio, and data over CATx, multimode or singlemode fiber optic cable supporting up to 288 I/O ports in a single frame. Each chassis can be configured as either a bi-directional switch for video and data or as a high definition video routing

Up to 288 Port DVI/KVM Matrix

Instant Switching

Flex-Port Technology

Mix & Match (CATx & Fiber)

Modular System

Easy Operations

switcher for DVI, VGA, and other high definition video signals.

Designed with performance and flexibility in mind, the Draco tera offers unmatched scalability with cost effective features. Offered in two chassis sizes, systems can be configured for 160 ports in 9U and up to 288 ports in 13U. Each port can be user configured as an input or an output scalable from one CPU to 287 workstations or as 287 CPU's managed by a single workstation console. A multiterabit backplane ensures the Draco tera chassis can support today's Gigabit networks with a terabit backplane on the 160 chassis and a two terabit backplane on the 288 chassis. The Draco tera is designed around a non-blocking switch technology which handles digital video resolutions up to 2560X1600@60Hz, USB 2.0, bi-directional audio, and serial data interfaces while providing for a wide range of extender modules to fit any application.

Each Draco tera chassis supports full redundant power and hot swappable modules for full service and field upgrades without interrupting signal flow. Each chassis can be controlled via an external control system such as Crestron, AMX, or other third party control interface. Additionally, an OSD (On Screen Display) can be accessed via simple keyboard commands and viewed directly from a workstation console. This eliminates the need to have a dedicated computer screen for administrative setup and switch commands.

The Draco tera is equipped with FlexPort Technology which allows each I/O port complete flexibility to be configured as an input or output port. Therefore, each port can be used as a CPU Port or as a Console port. Handling extender connections is a simple operation. As each Draco extender is connected and power applied, the module will automatically negotiate an ID port which will be stored in the switchers processor control module. Once this process is completed, the Draco extender will retain this port ID to the system even if the module is moved to another physical cable connection. In addition, extender definitions automatically determine the device ports to insure source signals such as USB 2.0, Dual Head Video, and audio are all switched synchronously.

Another great advantage of the Draco tera is the instant switching capabilities between CPU's. In contrast to typical IP based solutions which can take up to 30 seconds between switch commands, the Draco tera can initiate switch command in milliseconds —

Product Features

- Delay-free instant switching
- Port Flex technology all I / O ports can be configured as input or output, from 1:287 to 287:1 (CPUs: User)
- Modular and scalable system to a maximum of 288 ports
 - I / O modules for CATx, multimode fiber, singlemode fiber or available for mixed placement in groups of 8
- Mix & Match: Joint operation of CATx and multimode / singlemode
 - (DVI-D, DVI-I, USB HID, USB 2.0, RS-232, Digital or Analog Audio) depending on CPU / CON Unit connected
- Operation modes:
 - KVM Switch
 - Cross Point Switch
- Easy operation via OSD (On Screen Display), serial interface or graphical web interface
- Easy user and access management
- Internal power supplies 3 Optional power supply for even greater reliability

Technical Data Power Supply Information 90-240VAC / 4-2 A / 50-60 Hz Maximum Resolutions DVI Single Link 1920x1200@60Hz/24-bit or 2K DVI Dual Link up to 2560X2048- future option Maximum Distances 140 m Multimode (50μ) 400 m Singlemode (9μ) 10 km

Gefördert durch:



aufgrund eines Beschlusses des Deutschen Bundestages

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480 Series

Enterprise HD-KVM Switches



Order Numbers



Included in the basic unit is the control board, power supply (redundant frame is optional), display module, I / O modules and assemblies according to the OSD configuration

Products	Data Transfer	Part No.
Draco tera 160 port frame. Includes control board, 2 power supplies, without I/O cards		K480-160
Draco tera 288 port frame. Includes control board, 2 power supplies, without I/O cards		K480-288
Draco tera CATx I/O module		480-C8
Draco tera fiber I/O module for multimode connections		480-M8
Draco tera fiber I/O module for singlemode connections		480-S8
Draco tera fiber I/O module without SFP connectors (empty slots)		480-X8
Multimode GBIC for use in Draco minor / major / tera		459-1M
Singlemode GBIC for use in Draco minor / major / tera		459-15
Fan Tray Assembly (spare)		480-FAN
90-240VAC power supply for replacment, spare, or expansion		480-RED

	s ·	УМВО	L LEGEND		
	Single-Head (1 Monitor)	Dual-Head (2 Monitors)			Quad-Head (4 Monitors)
C-O	Single Link Resolution (1920x1200)	6	Dual Link Resolution (2560x2048)	((101))	Radio Link
—USB	USB-Interface	PS2	PS/2-Interface	RS-232	Serielle Interface RS-232
へ I ()) Analog Audio bidirectional	Analog Audio bidirectional	JL (1)) Digital Audio unidirectional	Digital Audio unidirectional	JL 🔰)) Digital Audio bidirectional	Digital Audio bidirectional
	CATx Data Link		Multimode Fiber Data Link		Singlemode Fiber Data Link



480 Series

Enterprise HD-KVM Switches



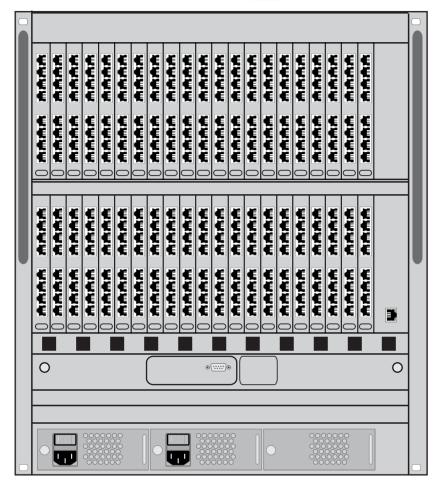
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Product Configurations

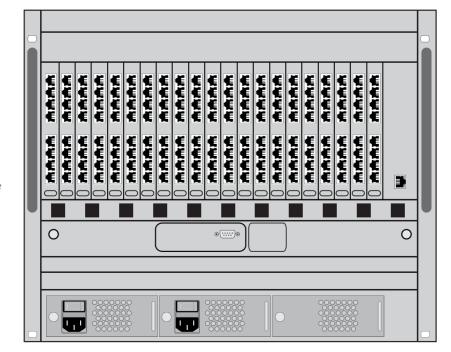








288 Port 13RU Frame



160 Port 9RU Frame

480 Series

Enterprise HD-KVM Switches



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Order Numbers for all Draco Extenders

CPU Units

Products	Number of Monitors	Single/ Dual Link	Maximum Resolution	—USB	RS-232	Ú Ŵ AUDIO	Data Transfer	Part No.
Draco Extender Compact		co	1920x1200	HID				L474-1SHC-COMPACT
Draco Extender Compact		co	1920x1200	HID	V	Analog bidirectional		L474-1S4CA-COMPACT
Draco Extender Compact		C-0	1920x1200	HID		Digital unidirectional		L474-1S4CD-COMPACT
Draco Extender Compact		c-o	1920x1200	HID				With VGA- Input L474-1SHCV-COMPACT
Draco Extender Compact		co	1920x1200	2.0				L474-1STC-COMPACT
Draco Extender Compact		æ	1920x1200	HID				L474-2S4C-COMPACT
Draco Extender Compact		C-0	1920x1200	HID				L474-1SHM-COMPACT
Draco Extender Compact		co	1920x1200	HID	V	Analog bidirectional		L474-1S4MA-COMPACT
Draco Extender Compact		C	1920x1200	HID		Digital unidirectional		L474-1S4MD-COMPACT
Draco Extender Compact		C-0	1920x1200	HID				With VGA- Input L474-1SHMV-COMPACT
Draco Extender Compact		c-o	1920x1200	2.0				L474-1STM-COMPACT
Draco Extender Compact		co	1920x1200	HID				L474-2S4M-COMPACT
Draco Extender Compact		co	1920x1200	HID				L474-1SHS-COMPACT
Draco Extender Compact			1920x1200	HID	V	Analog bidirectional		L474-1S4SA-COMPACT
Draco Extender Compact		co	1920x1200	HID		Digital unidirectional		L474-1S4SD-COMPACT
Draco Extender Compact		co	1920x1200	HID				With VGA- Input L474-1SHSV-COMPACT
Draco Extender Compact		æ	1920x1200	2.0				L474-1STS-COMPACT
Draco Extender Compact		c-o	1920x1200	HID				L474-2S4S-COMPACT

CON Units

Products	Number of Monitore	Single/ Dual Link	Maximum Resolution	—USB	RS-232	I ¶ŵ AUDIO	Data Transfer	Part No.
Draco Extender Compact			1920x1200	HID				R474-1SHC-COMPACT
Draco Extender Compact		co	1920x1200	HID	V	Analog bidirectional		R474-1S4CA-COMPACT
Draco Extender Compact		c	1920x1200	HID		Digital unidirectional		R474-1S4CD-COMPACT
Draco Extender Compact			1920x1200	HID				With VGA- Input R474-1SHCV-COMPACT
Draco Extender Compact		co	1920x1200	2.0				R474-1STC-COMPACT
Draco Extender Compact		c-o	1920x1200	HID				R474-2S4C-COMPACT

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CON Units

Product	Number of Monitors	Single/ Dual Link	Maximum Resolution	—USB	RS-232	₫ Ŵ AUDIO	Data Transfer	Part No.
Draco Extender Compact		co	1920x1200	HID				R474-1SHM-COMPACT
Draco Extender Compact			1920x1200	HID	V	Analog bidirectional		R474-1S4MA-COMPACT
Draco Extender Compact		co	1920x1200	HID		Digital unidirectional		R474-1S4MD-COMPACT
Draco Extender Compact		co	1920x1200	HID				With VGA- Input R474-1SHMV-COMPACT
Draco Extender Compact			1920x1200	2.0				R474-1STM-COMPACT
Draco Extender Compact		co	1920x1200	HID				R474-2S4M-COMPACT
Draco Extender Compact		co	1920x1200	HID				R474-1SHS-COMPACT
Draco Extender Compact		co	1920x1200	HID	V	Analog bidirectional		R474-1S4SA-COMPACT
Draco Extender Compact			1920x1200	HID		Digital unidirectional	□ →	R474-1S4SD-COMPACT
Draco Extender Compact		co	1920x1200	HID				With VGA- Input R474-1SHSV-COMPACT
Draco Extender Compact		င္	1920x1200	2.0				R474-1STS-COMPACT
Draco Extender Compact		c-o	1920x1200	HID				R474-2S4S-COMPACT



Other types of devices can be configured individually - For personalized assistance, please consult our expert configuration team to assist with any custom or special cabling needs

19" Mounting Hardware and Mounting Plates

Products	Part No.
19 "Rack Mount Kit for 1x 4x Single-Head Equipment, for Type: X477-1SHC, X477-1SHM, X477-1SHS	455-4G
19 "Rack Mount Kit for 1x 4x equipment for all other compact Draco Extender	455-8G
19 "power supply for up to 3 devices	455-PS
Mounting plate for screw-mounting	455-1K
Mounting plate for snap-in mounting	455-2K

Cable / Optional Accessories

Products	Part No.
CAT5, S-UTP-Simplex 4x2xAWG24	402-0J
Assembly with 2-plug CATx cable included	402-0D
Multimode Break-Out-Cable 2G50	433-2M
Assembly with 2 multimode LC cables included	252-2L
Singlemode Break-Out-Cabel 2E9	433-2S
Assembly with 2 singlemode LC cables included	252-2L
International power pack, 100240VAC/5VDC (use for spare in KVM Units)	260-5U



474 Series HD-KVM Switches



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Draco major

Product Information

The Draco major is a Video/KVM System supporting up to 32 CPU units that can be operational by up to 16 Workstations or Consoles. This versatile 2RU frame allows users to configure the system for a variety of applications. System can be configured from 8X8 up to 32X16. DVI sources can be





switched through the matrix for resoutions up to 1920X1200 or up to 2560X2048 using dual-link DVI sources. Boosting performance for ever-increasing data and video traffic requirements is simple with the 100Gbit backplane architecture. With a wide range of external converer modules, the Draco major supports DVI-D, USB-HID, USB 2.0, Serial Data, and Audio signals transmitted over CATx or fiber optic cables. This flexible unit can easily be set to support a variety of operational modes. By simply changing a few parameters in the easy-to-use on screen display (OSD), the frame can be configured as a crosspoint switch, a KVM switch, a Hot-Key Control Room monitoring station, or a full Student/Teacher training system. Diagnostics and setup can be configured through RS-232 or TCP/IP connections. Built in support is included to create a web-based HTML interface. In addition, the switch can support external media extenders for dual-head and quad-head applications.

When the Draco major operational mode is set to KVM switching, a unique feature called "Partner Viewing" allows the console user to share active display content to one or more additional displays. This is perfect for applications where the user wants to show on-screen information to a projector or other large venue display. Another feature called "Follow Me" allows for other displays to follow your actions - even when you change to another CPU source.

For command and control environments, the user can set the Draco major to function as a control room management system. Several monitors can be assigned to a workplace. With the on-screen display manager, CPU's assigned to the workstation environment can easiley be selected for quick access to other CPU's and allowing the console user to take access of any CPU's mouse and keyboard.

In Educational Environments, an additional operation mode sets the system to a student/teacher configuration. The teacher can always switch to the monitor of each student for observation. In the configuration for up to 15 students, the teacher can additionally switch his screen content or this of any student to the other students. In the configuration for up to 31 students, he can switch his or the screen content of any student to a common screen (e.g. video projector).

In KVM switch mode, access to the system is always available through a keyboard command which can be displayed via an On-Screen Display (OSD) to any user with access privileges. Additionally system command can be accessed through an serial interface or network interface. Up to 1000 levels of user management is possible.

X

In the operation mode Crosspoint Switch, the Draco major allows applications in conference rooms or in Digital Signage Applications.

Product Features

- Delay-free instant switching
- Modular and scalable system
- I / O modules for CATx, multimode, single mode or available for random placement
- Mixed usage of CATx, multimode and single mode
 - (DVI-D, DVI-I, USB HID, USB 2.0, RS-232, Audio) depending on CPU / CON Unit
- Operation modes:
 - Single-Head (1x graphic)
 - Dual-Head (2x graphics)
 - Dual-Head (4x graphics)
- Easy operation via OSD (On Screen Display), serial interface or graphical web interface
- Follow-Me Viewing Mode: Administrator allows multiple consoles to follow along with primary console display screen. Ideal for duplication output requirments.
 - Trainer mode: Teacher or trainer can oversee up to 15 workstations in personal mode or up to 31 students in full control public-access mode.
- Easy user and access management
- 19 "rack mount kit included
- Internal Power Supply (redundancy available)

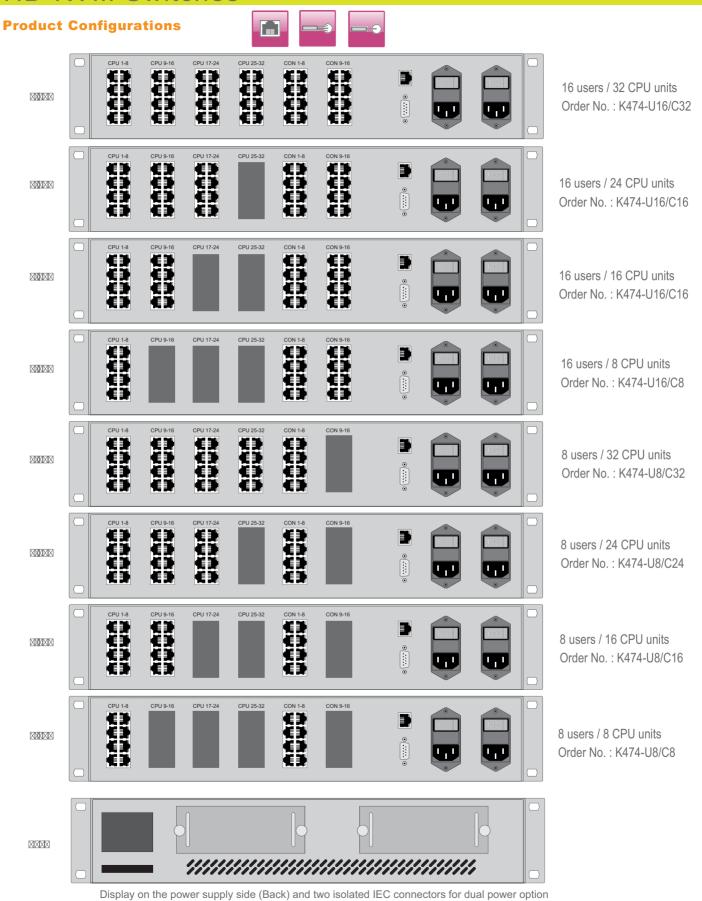
Technical Data	
Power Supply Information	90-240VAC / 0,5 A / 47-60 Hz
Maximum Resolution	DVI Single Link 1920x1200@60Hz/24-bit
Maximum Distances	
CATx	140 m
Multimode (62,5µ)	200 m
Multimode (50µ)	400 m
Singlemode (9µ)	10 km

474 Series

HD-KVM Switches



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474 Series

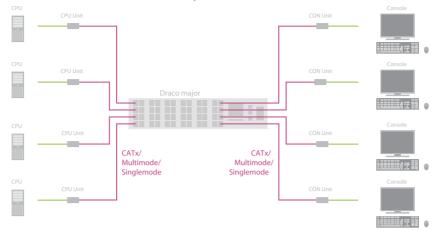
HD-KVM Switches



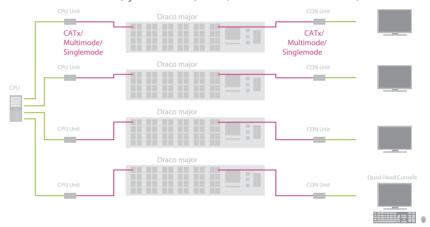
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Applications

Direct Connections: Up to 32 CPUs to 16 Consoles

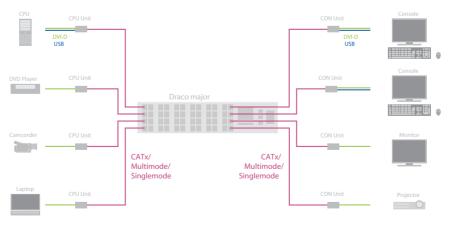


Four cascaded switches (synchronous): 32 Quad-Head CPUs to 16 Quad-Head Consoles



Modes of Operation

Crosspoint Switch



Up to 32 DVI signal sources per one CPU unit can be installed. The Draco major, acting as cross-point switch can be installed up to 10 km away. The received signals (DVI, USB, optional serial / audio) can be connected to the outputs. In this diagram, an input signal can be distributed to several outputs. up to 10km away with the optional singlemode fiber modules. The switch can controlled through the OSD (on screen display), serial interface, or through a web browser interface. When configured to the maximum of 32 CPUs and 16 Consolers, the unit cannot be setup for cascading.

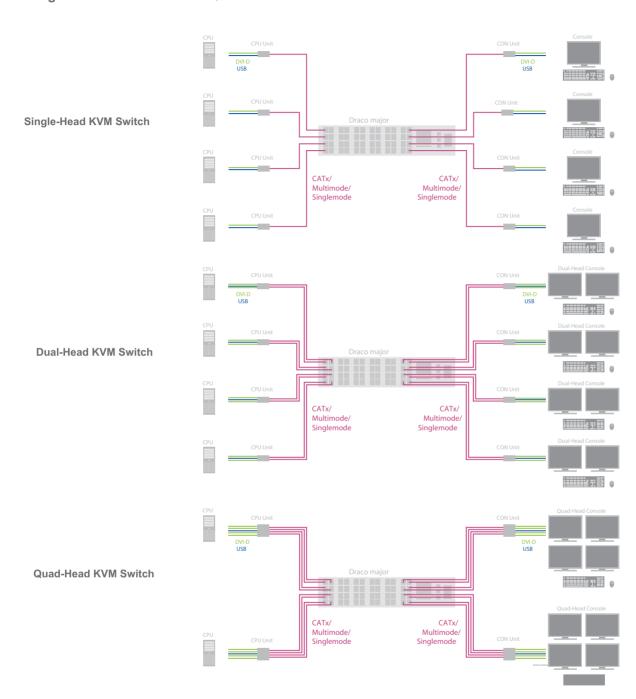
474 Series

HD-KVM Switches



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Single-Head / Dual-Head / Quad-Head KVM Switch



As a KVM switch, the device allows multiple modes of operation:

- 16 brackets of 32 CPUs Single-Head
- 8 brackets of 16 CPUs Dual-Head
- 4 consoles to 8 CPUs Dual-Head Up to 32 CPU sources can be connected up to 10km away with extender KVM devices installed at each end.

The received signals (DVI, keyboard / mouse optional + serial / audio) are connected to the output or outputs. From these outputs can be up to 16 controlled (up to 10 km distant) control panels. This is installed on each console CON Unit. The device can be set as a cascaded switch instead of a CPU at each (CPU) port to connect another KVM unit. This allows up to 1024 CPUs with one monitor (Single-Head), 256 CPUs with two monitors (dual head), or control up to 64 CPUs (Quad Head).

The switch can be made by one of the following::

- serial interface
- combination of key strokes on the keyboard
- convenient OSD (On Screen Display)

Several control options are available to simplify user managment functions:

- user web interface
- pushbutton control with external control panel
- 3rd party control similar to Crestron or AMX
- Tablets or other serial data devices

Digital KVM Switches474 Series HD-KVM Switches



Where German Engineering Meets HD-KVM

Order Numbers

Draco major preconfigured CATx Switches



Included in the basic unit is the control board, power supply (redundant frame is optional), display module, I / O modules and assemblies according to the OSD configuration

Product	Data Transfer	Part No.
Draco major, 8x User / 8x CPU		K474-U8/C8
Draco major, 8x User / 16x CPU		K474-U8/C16
Draco major, 8x User / 24x CPU		K474-U8/C24
Draco major, 8x User / 32x CPU		K474-U8/C32
Draco major, 16x User / 8x CPU		K474-U16/C8
Draco major, 16x User / 16x CPU		K474-U16/C16
Draco major, 16x User / 24x CPU		K474-U16/C24
Draco major, 16x User / 32x CPU		K474-U16/C32

Components for customizing the Draco Magor

Product	Data Transfer	Part No.
Draco major, empty (basic unit with control board, power supply), free assembly		K474-UX/CX
Draco OSD module (Required for each output module and switching from the Console)		474-OSD
Draco display module		474-DIS
Draco CATx E/A module		474-C8
Draco fiber I/O module for multimode		474-M8
Draco fiber I/O module for singlemode		474-S8
Draco fiber I/O module without modules (empty slots)		474-X8
Multimode GBIC for use in Draco minor / major / tera		459-1M
Singlemode GBIC for use in Draco minor / major / tera		459-1S
90-240VAC power supply to replace or upgrade power supply for redundant power supply		474-RED



For personalized assistance, please consult our expert configuration team to assist with any custom or special cabling needs



459 Series

HD-KVM Switches

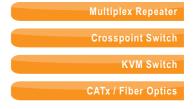


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Draco minor CATx / Fiber Optics







Product Information

DVI, USB and more - Our new Draco™ minor CATx (Multiplex-Repeater / Cross-point switch / KVM-switch) supports the DVI graphics interface (DVI-D) and, depending on the device, USB keyboard/mouse (HID - Human Interface Device - such as touch screens, graphics tablets, barcode readers or similar and serial (V24/RS232) transfer and also bi-directional audio transmission.

Product Features

- Crystal clear picture quality in all resolutions up to 1920x1200@60Hz
- Full support for Keyboard, Mouse, and Video Display
- Supports USB-HID devices for touchscreens, tablets and other pointing devices
- Local video output connection for CPU monitoring
- Supports Dual-Head graphics cards and dual-monitor applications
- Maximum resolution on all distances
- Compatible with all operating systems
- Also applicable as slave unit for Draco™ major
- Optional Rack-Mount-Kits for up to 4 devices in 1RU space.

Technical Data

Power Supply Information 90-240VAC / 0,5 A / 47-63 Hz

5VDC

2x 10 km

Maximum Resolution DVI Single Link 1920x1200@60Hz/24-bit

Maximum Cable Distance

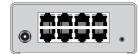
Singlemode (9µ)

CATx 2x 140 m Multimode (62,5μ) 2x 200 m Multimode (50μ) 2x 400 m

Product Types









Draco minor CATx

Front

Back

K459-7M/7S/7X







Draco minor Fiber

459 Series

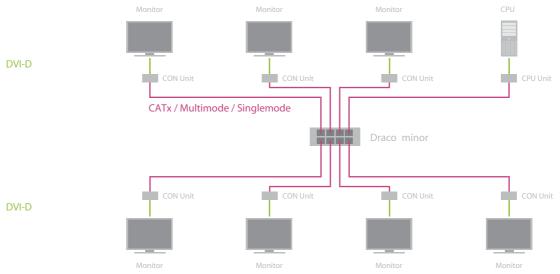
HD-KVM Switches



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Modes

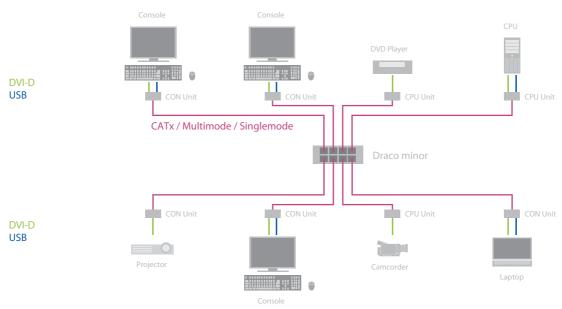
Multiplex Repeater



As a Multiplex-repeater:

As a Multiplex Repeater the device supports transmission of signals up to 140m over CATx or up to 10Km over single mode fiber to the remote unit. On each output, a remote unit is required to receive signals (DVI + optional serial/audio) which are equalized and then distributed for up to 7 outputs. Optionally, the unit can be configured to support two independent sources distributed on up to three display devices or four signal sources can be transmitted over CATx or Fiber for long distance requirements. Optionally, instead of a extending display devices, the DM can be cascaded in two stages to support up to 49 displays from a single source.

Crosspoint Switch



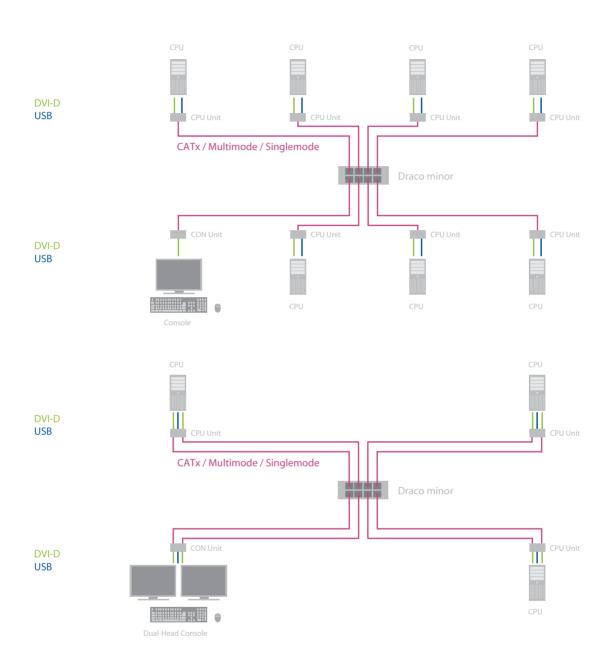
As a Crosspoint Switch:

As an 8-port Crosspoint Switch each port can be switched optionally as an input or output. You can, for example, switch and distribute the signals from 3 signal sources on up to 5 displays (allowing simultaneous presentations on several displays). Alternatively, signals coming from 7 signal sources can be switched in turn to a single display. The changeover can be triggered remotely using the serial interface (RS232) and/or by a push-button at the device..

459 Series HD-KVM Switches



Single-Head KVM Switch / Dual-Head KVM Switch



As a KVM Switcher:

As a 7-port KVM Switch up to 7 Single-Head ports (a Single-Head extender system supports 1x monitor, 1x keyboard, 1x mouse) or up to 3 Dual-Head ports (a Dual-Head extender system supports 2x monitor, 1x keyboard, 1x mouse). The changeover can be triggered remotely using the serial interface (RS232) and/or by a push-button at the device. The Draco minor switch has the advantage that it can be positioned up to 140m (CATx) or 10km (Fiber) away from both your signal source and display device. This becomes possible by using the proven Draco-Extender technology for the transmission of DVI- Monitor and USB-Keyboard and Mouse signals over CATx or Fiber. The operation of a Draco minor Switch always requires at least one Local Unit and up to seven Remote Units from the Draco-Extenders range.

Key Features as a KVM Switcher

- In cascade mode, up to 49 computers can be managed from a single monitor (9 when configured as a Dual-Head)
- configurable from a serial interface
- configurable from a keyboard command
- configurable from an external RS-232 control device
- can be configured for a Single-Head KVM, Dual-Head KVM, or DVI-D only Switch.

Digital KVM Switches 459 Series HD-KVM Switches



Order Information



Part numbers beginning with "K", "L" or "R" includes all operations necessary connection cables and power supplies

Product	Data Transfer	Part No.
Draco minor multifunction device, 8x CATx port		K459-7C
Draco minor multifunction device, 8x multimode fiber port		K459-7M
Draco minor multifunction device, 8x singlemode fiber port		K459-7S
Draco minor multifunction device, frame only (no ports filled)		K459-7X
multimode GBIC for use with Draco minor / major / tera		459-1M
singlemode GBIC for use with Draco minor / major / tera		459-15

19"-mounting hardware / mounting plates

Product	Part No.
19" rack mount kit for 1x3x, Draco minor	455-8G
19" rack mount power supply, drives up to three units	455-PS
mounting plate with screw hardware	455-1K
mounting plate with snap-in hardware	455-2K

Cable / Optional Accessories

Product	Part No.
Draco switch electronics including IR remote control device	K459-UE
CAT5, S-UTP-Simplex 4x2xAWG24	402-0J
includes 2 plug assembly for CATx	402-0D
Multimode Break-Out-Cabel 2G50	433-2M
includes 2 fiber optic plugs for multimode cable (LC)	252-2L
Singlemode Break-Out-Cabel 2E9	433-2S
includes 2 fiber optic plugs for singlemode cable (LC)	252-2L
International Power Supply 100240VAC/5VDC	260-5U



459 Series

HD-KVM Switches



Where German Engineering Meets HD-KVM

Switching Components for Draco Minor





Product Information

The Draco minor KVM/Crosspoint module can be switched using a basic IR operator keypad or via pushbutton switches on an external serial interface device that connects directly to the Draco minor through an RJ-45 connection. Using the Draco minor software command GUI, the serial device can be used to setup I/O requirements for specific KVM/Video output combinations.

KVM Switch Mode: Switching is accomplished through pushbutton command specifided through stored macros. or direct access through GPIO contacts.

IR Switch Mode: Use the supplied miniature keypad to make switch calls or Macro commands.

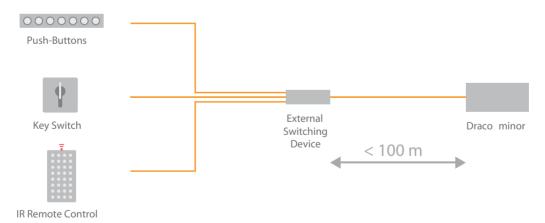
Product Features

For use with the Draco minor

- Convenient switching using key switches, pushbutton or IR remote control switching
- KVM Switch mode allows device to be up to 100m away
- No power supply required
- IR module supplied with each Draco minor

Technical Data Maximum Distance Up to 100m away from device Dimensions 103 x 88 x 29 mm

Functional Diagram



Order Numbers



Part numbers beginning with "K" includes all operations necessary connection cables and power supplies

Product	Part No.
Switching Electronics for Draco Minor	K459-UE



HD-KVM Extender Draco Compact - 477 Series
Transfer of DVI-/USB-/serial /Audio-Signal max up to 10 km. 1920x1200 @ 60Hz/24-bit

HD-KVM Extender Draco Vario - 477 Series
Transfer of DVI-/USB-/serial /Audio-Signal max up to 10 km. 1920x1200 @ 60Hz/24-bit

HD-KVM Extender DVXi / ET - 461 / 462 / 463 Series
Transfer of DVI-/USB-/PS/2-/serial /Audio-Signal max up to 10 km. 1920x1200 @ 60Hz/24-bit

HD-KVM Extender DVXi / ET USB 2.0 - 461 / 462 / 463 Series Transfer of DVI-/USB-Signal max up to 10 km. 1920x1200 @ 60Hz/24-bit

HD-KVM Extender DVXi / ET 4x USB HID - 461 / 462 / 463 Series Transfer of DVI-/USB-Signal max up to 10 km. 1920x1200 @ 60Hz/24-bit

HD-KVM Extender DVI-I - 461 / 462 / 463 Series Transfer of DVI-/VGA-/USB-Signal max up to 10 km. 1920x1200 @ 60Hz/24-bit

HD-KVM Extender DVXi / ET Quad-Head - 461 / 462 / 463 Series Transfer of DVI-/USB-/PS/2-/serial /Audio-Signal max up to 10 km. 1920x1200 @ 60Hz/24-bit

HD-KVM Extender DSXi - 473 Series Lossless DVI-/USB-Signal transfer of up to 50 m with max. 1920x1200 @ 60Hz/24-bit

HD-KVM Extender DVEX 3500/4500 - 478 Series
Transfer of DVI-/USB 2.0-/Audio-Signal max up to 500 m with. 1920x1200 @ 60Hz/24-bit

DVI KVM Extender DXXi - 472 Series Loss-free transfer of DVI-/USB-/serial /Audio-Signal max up to 400 m with. 2560x2048 @ 60Hz/24-bit

DVI / VGA KVM Extender DDXi - 437 / 438 / 439 / 442 / 443 Series
Transfer of DVI-/VGA-/USB-/PS/2-/serial /Audio-Signal max up to 10 km. 1920x1200 @ 60Hz/18-bit

DVI Extender Media DVXi / ME - 467 Series
Transfer of DVI-/serial /Audio-Signal max up to 10 km. 1920x1200 @ 60Hz/24-bit

Repeater / Cross Repeater - 471 Series
Repeater to double cable lengths in CATx or Fiber Optics

CWDM MUX/DEMUX - 470 Series
Allow up to 4 independent data streams over a single fiber pair

DVI Equalizer - 458 Series Transmission of DVI signals up to 40 m

477 Series

HD-KVM Extender



Draco Extender Compact





Product Information

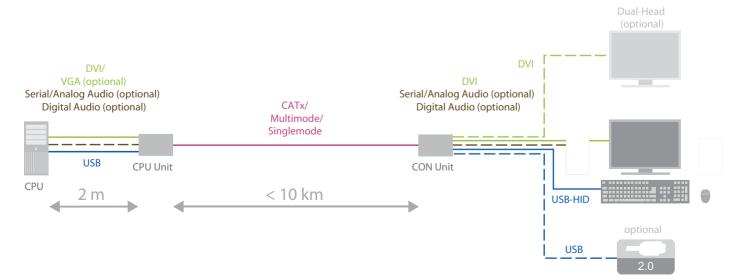
The Draco Extender COMPACT family supports the transmission of DVI signals up to resolutions of 1920X1200. In addition, USB HID, USB2.0, analog or digital audio and serial data signals can be extended to distanced up to 10km. These units are designed to perform with excellent image quality and smooth HD video playback. With the IHSE high quality multi-stage compression algroithm, it is possible to extend both single head and dual head video signals up to 140m over CATx, 400m over multimode fiber, or up to 10km over singlemode fiber cable.

Product Features

- Excellent image quality in all resolutions.
- Single-and dual-head device models available
- Wide range of options include:
 - -Two USB ports for HID
 - -USB 2.0
 - -Serial and Analog Audio
 - -Digital Audio
 - -VGA Inputs
- All connections on one side for easy installation
- 19 "rack mount kit available up to 4 units fit in 1RU
- External power supply or optional tray mounted power supply for 1RU frame

Technical Data Power Supply Information 90-240VAC / 1 A / 50-60 Hz Data Rates Serial (RS-232) 19,2 kBaud HW-Handshake Analoges Audio Bidirectional Stereo-Audio Connections, 16-bit, 38,4 kHz Digital Audio Compatible with AES/EBU, S/PDIF, Dolby Digital, DTMS, PCM, 32-48 kHz Maximum Resolution DVI Single Link 1920x1200@60Hz/24-bit Maximum Cable Distance CATx 140 m 400 m Multimode OM3 1000 m Singlemode 10 km

Functional Diagram



477 Series

HD-KVM Extender



Where German Engineering Meets HD-KVM

K477-1SHC-COMPACT







Back



K477-1SHM-COMPACT / K477-1SHS-COMPACT





CPU Unit (103 x 143 x 29 mm)

CON Unit

K477-1S4CA-COMPACT

CPU Unit

(103 x 143 x 29 mm)

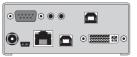






CON Unit

(103 x 143 x 29 mm)





Back

K477-1S4MA-COMPACT / K477-1S4SA-COMPACT







CPU Unit (103 x 143 x 42 mm)

CON Unit (103 x 143 x 42 mm)

CPU Unit (103 x 143 x 42 mm)

(103 x 143 x 42 mm)

CON Unit

CON Unit

(103 x 143 x 29 mm)

(103 x 143 x 42 mm)

K477-1S4CD-COMPACT







Back

K477-1S4MD-COMPACT / K477-1S4SD-COMPACT







CPU Unit (103 x 143 x 42 mm)

CON Unit (103 x 143 x 42 mm)

K477-1SHCV-COMPACT

CPUUnit

(103 x 143 x 42 mm)







Back

K477-1SHMV-COMPACT / K477-1SHSV-COMPACT







CPU Unit (mit VGA Eing.) (103 x 143 x 42 mm)

CON Unit (103 x 143 x 29 mm)

K477-1STC-COMPACT

(103 x 143 x 42 mm)

CPU Unit (mit VGA Eing.)







Back

K477-1STM-COMPACT / K477-1STS-COMPACT







CPU Unit (103 x 143 x 42 mm)

CON Unit (103 x 143 x 42 mm)

CPU Unit (103 x 143 x 42 mm)

CON Unit (103 x 143 x 42 mm)

477 Series

HD-KVM Extender



Where German Engineering Meets HD-KVM

Product Types

K477-2S4C-COMPACT









CON Unit (103 x 143 x 42 mm)

K477-2S4M-COMPACT / K477-2S4S-COMPACT









CON Unit (103 x 143 x 42 mm)

Order Numbers



Please note that the devices are operated in pairs (one installed as the CPU Unit in conjunction with an appropriate console located CON Unit). Part numbers beginning with "K" contain both CPU and CON Unit for the operation and include all necessary cables and power supplies.

Back

Product	Number of Monitors	Single/ Dual Link	Maximum Resolution	—USB	RS-232	I(I)) AUDIO	Data Transfer	Part No.
Draco Extender Compact		co	1920x1200	HID				K477-1SHC-COMPACT
Draco Extender Compact		C- Đ	1920x1200	HID	V	Analog bidirectional		K477-1S4CA-COMPACT
Draco Extender Compact			1920x1200	HID		Digital unidirectional		K477-1S4CD-COMPACT
Draco Extender Compact		co	1920x1200	HID				with VGA- Input K477-1SHCV-COMPACT
Draco Extender Compact		æ	1920x1200	2.0				K477-1STC-COMPACT
Draco Extender Compact		C-0	1920x1200	HID				K477-2S4C-COMPACT
Draco Extender Compact		co	1920x1200	HID				K477-1SHM-COMPACT
Draco Extender Compact		co	1920x1200	HID	V	Analog bidirectional		K477-1S4MA-COMPACT
Draco Extender Compact		æ	1920x1200	HID		Digital unidirectional		K477-1S4MD-COMPACT
Draco Extender Compact		c-0	1920x1200	HID				with VGA- Input K477-1SHMV-COMPACT
Draco Extender Compact		co	1920x1200	2.0				K477-1STM-COMPACT
Draco Extender Compact		æ	1920x1200	HID				K477-2S4M-COMPACT
Draco Extender Compact		C-0	1920x1200	HID			─	K477-1SHS-COMPACT
Draco Extender Compact		co	1920x1200	HID	V	Analog bidirectional		K477-1S4SA-COMPACT
Draco Extender Compact	<u></u>	co	1920x1200	HID		Digital unidirectional		K477-1S4SD-COMPACT
Draco Extender Compact		æ	1920x1200	HID				withVGA- Input K477-1SHSV-COMPACT
Draco Extender Compact		c- 0	1920x1200	2.0				K477-1STS-COMPACT
Draco Extender Compact		co	1920x1200	HID				K477-2S4S-COMPACT

477 Series HD-KVM Extender



19" mounting hardware / mounting plates

Product	Part No.
19 "Rack Mount Kit for 1x 4x Single-Head Equipment, for Type: K477-1SHC, K477-1SHM, K477-1SHS	455-4G
19 "Rack Mount Kit for 1x 4x equipment for all other Draco Extender COMP ACT	455-8G
19 "power supply for up to 3 devices	455-PS
Mounting plate for screw mounting	455-1K
Mounting plate for snap-in mounting	455-2K

Cable / Optional Accessories

Product	Part No.
CAT5, S-UTP-Simplex 4x2xAWG24	402-0J
Includes 2-plug assembly CATx	402-0D
Multimode Break-Out-Cable 2G50	433-2M
Assembly Includes 2 multi-mode LC connector	252-2L
Singlemode Break-Out-Cable 2E9	433-2S
Assembly Includes 2 single mode LC connector	252-2L
International Power Supply 100240VAC/5VDC (Spart part for KVM units)	260-5U

477 Series

HD-KVM Extender



Draco Extender Vario





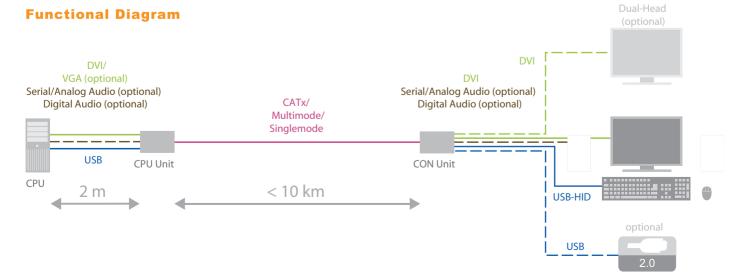
Product Information

The Draco Vario product family is a modular approach to extenders that allows customization for most any application. Each extender option can be installed in one of the unique frame assemblies. Four frame types are available - 2, 4, 6, or 21 cards per frame. Each DVI extender supports high resolution video up to 1920X1200 and USB HID signals for mouse/keyboard or other USB pointing devices. By maximizing data flow with our mulit-stage compression algorithm, you can be sure of superb image quality oand smooth playback of HD video signals. Several options are available for each module including analog or digital audio, USB 2.0, VGA inputs, and RS232 serial data transports. Cable distances up to 140m with CATx, 400m with multimode fiber, or 10km with singlemode fiber cables can be achieved.

Product Features

- Superior image quality in all resolutions.
- Single-and multi-head device models available
- Units offered with a wide range of options including:
 - Two USB ports for HID devices
 - USB 2.0
 - Serial interface and analog audio
 - Digital audio interface
 - VGA input
- 19 "rack mount kit available
- Power Supply included with unit. optional redundant power supply offered

Technical Data	
Power Supply Information	90-240VAC / 0,5 A / 47-63 Hz 5VDC
Power Supply (19" Case)	100-240VAC / 2.5 A / 50-60 Hz
Data Rates	
Serial (RS-232) Analoge Audio	19,2 kBaud HW-Handshake Bidirectional Stereo-Audio connection, fast CD-Quality, 16-bit, 38,4 kHz
Digital Audio	Compatible with AES/EBU, S/PDIF, Dolby Digital, DTMS, PCM, 32-48 kHz
Maximum Resolution	DVI Single Link 1920x1200@60Hz/24-bit
Maximum Cable Distance	
CATx	140 m
Multimode	400 m
Multimode OM3 Singlemode	1000 m 10 km



477 Series

HD-KVM Extender



Where German Engineering Meets HD-KVM

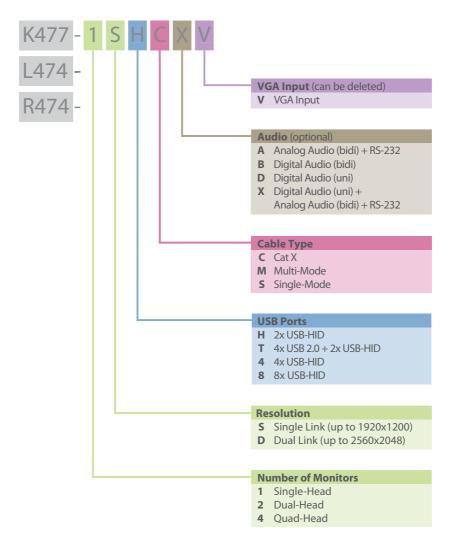
Part Number Configuration



Part starting with the K477 denotes a kit consisting of CPU and CON Unit. In addition, CPU and CON Unit are also available separately. The device names for the CPU or CON Unit are derived as follows:

K477-1SHC CPU unit corresponds to L474-1SHC

K477-CON 2S4M unit corresponds to R474-2S4M



Order Numbers



Please note that the devices are operated in pairs (one installed as the CPU Unit in conjunction with an appropriate console located CON Unit). Part numbers beginning with "K" contain both CPU and CON Unit for the operation and include all necessary cables and power supplies.

Product	Number of Monitors	Single/ Dual Link	Maximum Resolution	—USB	RS-232	ば ŵ AUDIO	Data transfer	Part No.
Draco Extender Vario		€-3	1920x1200	HID				K477-1SHC
Draco Extender Vario		6-3	1920x1200	HID	V	Analog bidirectional		K477-1S4CA
Draco Extender Vario		C 3	1920x1200	HID			-	K477-1SHS
Draco Extender CPU Unit		C-3	1920x1200	HID	V	Analog bidirectional	—	L474-1S4SA
Draco Extender CON Unit		6-3	1920x1200	HID				R474-2S4S

Find suitable accessories and cables on page XX

477 Series

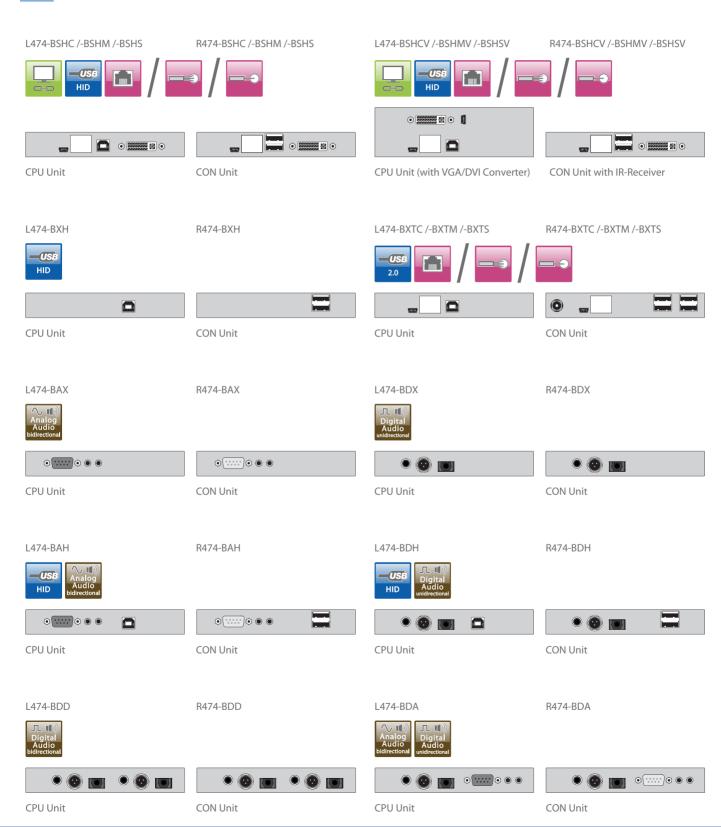
HD-KVM Extender



Selection of Draco Extender Options



Experienced users can create more Draco Extender device models, by completely random combination below modules with enclosures below.



477 Series **HD-KVM Extender**



Where German Engineering Meets HD-KVM

Frame Assemblies

2 Slot Enclosure (with or without redundancy)





4 Slot Enclosure (with or without redundancy)

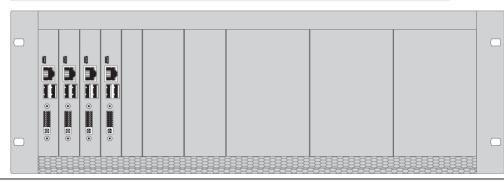


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6 Slot Enclosure (with redundacy option available)



4RU Rack Enclosure (xx slots) (with redundancy option available)



Order Numbers



Configure your prefered device as follows:

- 1. Choose an empty enclosure, with or without redundancy preparation.
- 2. Select the type and number of installed components (CPU Units) per base module is eligible for an assembly to be used.
- 3. Select the type and number of installed components (CON Units) per base module is eligible for an assembly to be used.

Enclosures

Product	Part No.
Housing for 2 modules and 1 x power supply	474-BODY2
Housing for 2 modules + setup for redundancy power	474-BODY2R
Housing for 4 modules and 1 x power supply	474-BODY4
Housing for 4 modules + setup for redundancy power	474-BODY4R
Empty housing units for 6 + setup for redudancy power	474-BODY6R
19 "4U rack + power supply + setup for redundancy power	474-BODY21R

Basic Components

Product	Number of Monitors	Single/ Dual Link	Maximum Resolution	—USB	Data Transfer	Part No.
CPU Unit, DVI-D, USB-HID, CATx			1920x1200	HID		L474-BSHC
CON Unit, DVI-D, USB-HID, CATx		÷	1920x1200	HID		R474-BSHC
CPU Unit, DVI-D, USB-HID, Multimode		C	1920x1200	HID		L474-BSHM
CON Unit, DVI-D, USB-HID, Multimode			1920x1200	HID		R474-BSHM
CPU Unit, DVI-D, USB-HID, Singlemode			1920x1200	HID		L474-BSHS
CON Unit, DVI-D, USB-HID, Singlemode		c-o	1920x1200	HID		R474-BSHS

477 Series

HD-KVM Extender



Where German Engineering Meets HD-KVM

Basic Components

Product	Number of Monitors	Single/ Dual Link	Maximum Resolution	—USB	Data Transfer		Part No.
CPU Unit, DVI-I, USB-HID, CATx		C-	1920x1200	HID		with VGA input	L474-BSHCV
CON Unit, DVI-D, USB-HID, CATx		C	1920x1200	HID		with IR Receiver	R474-BSHCV
CPU Unit, DVI-I, USB-HID, Multimode		C- O	1920x1200	HID		with VGA input	L474-BSHMV
CON Unit, DVI-D, USB-HID, Multimode		C-O	1920x1200	HID		with IR Receiver	R474-BSHMV
CPU Unit, DVI-I, USB-HID, Singlemode		c	1920x1200	HID		with VGA input	L474-BSHSV
CON Unit, DVI-D, USB-HID, Singlemode		co	1920x1200	HID		with IR Receiver	R474-BSHSV

Upgrade Modules

Product	—USB	RS-232	II ® AUDIO	Part No.
L474-BXH CPU Unit, 2x USB-HID	HID			L474-BXH
R474-BXH CON Unit, 2x USB-HID	HID			R474-BXH
L474-BAX CPU Unit, RS-232 + analog Audio (bidirectional)		V	Analog bidirectional	L474-BAX
R474-BAX CON Unit, RS-232 + analog Audio (bidirectional)		V	Analog bidirectional	R474-BAX
L474-BDX CPU Unit, digital Audio (unidirectional)			Digital unidirectional	L474-BDX
R474-BDX CON Unit, digital Audio (unidirectional)			Digital unidirectional	R474-BDX
L474-BAH CPU Unit, RS-232 + analog Audio (bidirectional), 2x USB-HID	HID	V	Analog bidirectional	L474-BAH
R474-BAH CON Unit, RS-232 + analog Audio (bidirectional), 2x USB-HID	HID	V	Analog bidirectional	R474-BAH
L474-BDH CPU Unit, digital Audio (unidirectional), 2x USB-HID	HID		Digital unidirectional	L474-BDH
R474-BDH CON Unit, digital Audio (unidirectional), 2x USB-HID	HID		Digital unidirectional	R474-BDH
L474-BDD CPU Unit, digital Audio (bidirectional)			Digital bidirectional	L474-BDD
R474-BDD CON Unit, digital Audio (bidirectional)			Digital bidirectional	R474-BDD
L474-BDA CPU Unit, digital Audio, RS-232 + analog Audio (bidirectional)			Analog (bidi) + Digital (uni)	L474-BDA
R474-BDA CON Unit, digital Audio, RS-232 + analog Audio (bidirectional)			Analog (bidi) + Digital (uni)	R474-BDA
Monitoring assembly 1-21 CPU / CON modules with SNMP				474-CONTROL

USB 2.0-Modules

Product	—USB	Data Transfer	Part No.
CPU Unit, USB 2.0, CATx	2.0		L474-BXTC
CON Unit, USB 2.0, CATx	2.0		R474-BXTC
CPU Unit, USB 2.0, Multimode	2.0		L474-BXTM
CON Unit, USB 2.0, Multimode	2.0		R474-BXTM
CPU Unit, USB 2.0, Singlemode	2.0		L474-BXTS
CON Unit, USB 2.0, Singlemode	2.0		R474-BXTS

Digital KVM Extenders 477 Series HD-KVM Extender



19 "mounting hardware / mounting plates

Product	Part No.
Fastening strips for screw or snap on for 2 -, 4 - and 6-housing	474-VPLATE
19 "/ 1U rack mount kit for 2 -, 4 - and 6-housing	474-VRMK
Retrofitting for redundant power supply option (without power supply) for 2 - and 4-way housing	474-OPTRED
Power Supply for 2-way enclosure (spare or redundancy)	474-PSU2
Power Supply for 4-body (spare or redundancy)	474-PSU4
Power supply for 6-way enclosure (spare or redundancy)	474-PSU6
Power supply for 19 "rack (spare or redundancy)	474-PSU21
Blind plate 3U/4HP for 2 -, 4 -, 6-speed model and 19 "rack	474-BLND1
Blind plate 3HE/8TE for 4 -, 6-speed model and 19 "rack	474-BLND2
Blind plate 3HE/8TE for 19 "rack 3HE/16TE	474-BLND4

461 | 462 | 463 Series HD-KVM Extenders



Where German Engineering Meets HD-KVM

DVXi/ET USB-HID/PS/2



Wide Selection of Features

Resolutions up to 1920X1200

24-bit color depth

Product Information

The DVXi/ET supports DVI resolutions up to 1920X1200 as far away as 10Km and can provide perfect video quality while also offering keyboard, mouse, serial, and audio along the same extended transport. The DVXi- Extender supports DVI graphic interfaces (DVI-D) and, depending on device type; either PS2- keyboard/mouse or USB- keyboard/mouse. Using advanced USB HDI (Human Device Interface) technology other USB devices such as Touch Screens, Tables and other pointing devices can be attached as well.

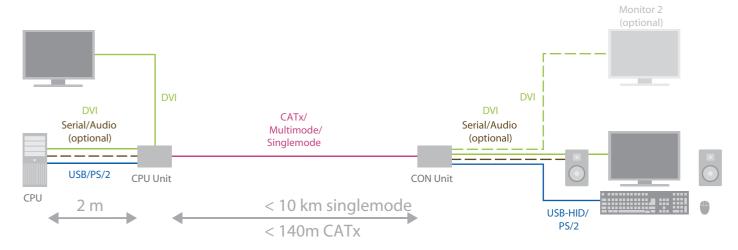
Using a highly effective Compression algorithm you can count of the DVXi to provide the highest resolutions (1920x1200@ 24bit) without motion artifacts such as jerky video or motion latency. Unique to the DVXi is the maximum signal distance does not depend on the screen resolution. Offered as a Single-Head or optional Dual-Head device, work space clutter becomes a thing of the past with only one CATx or Fiber Optic Cable required to send signals up to 140m over CATx or up to 10km over singlemode fiber.

Product Features

- Crystal clear picture quality at all resolutions up to 1920x1200@60Hz
- Wide selection of devices to remotely locate a workspace (Keyboard, Mouse and Screen)
- Supports PS2 keyboard / mouse OR USB keyboard/mouse/ USB- HID devices
- Local access to add a second console directly at the CPU USB offers local Video Access
- Dual Head devices available, supporting workspaces with Dual-Head grapic cards
- Compatible with all operating systems
- Compatible with all major KVM Switches
- Mounting Brackets for screws-ib or snap-fit available.
- Up to 4 devices may be mounted in 1U rack space.
- Kit comes complete with local unit, remote unit, CPU-cable and power supplies

Technical Data	
Power Supply Information	90-240VAC / 0,5 A / 47-63 Hz 5VDC
Data Rates	
Serial (RS-232) Audio	19,2 kBaud HW-Handshake Bidirectional Stereo-Audio connection, fast CD-Quality, 16-bit, 38,4 kHz
Maximum Resolution	DVI Single Link 1920x1200@60Hz/24-bit
Maximum Cable Distance	
CATx Multimode Singlemode	140 m 400 m 10 km

Functional Diagram



461 | 462 | 463 Series **HD-KVM Extenders**



Where German Engineering Meets HD-KVM

(1)

Product Types











CPU Unit (103 x143 x 29 mm)

CON Unit (103 x143 x 29mm)

K461-2W









CPU Unit (103 x143 x 42 mm)

CON Unit (103 x 143 x 42 mm)

K461-SA









CPU Unit (103 x 143 x 42 mm)

CON Unit (103 x 143 x 42 mm)

K461-DA









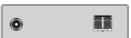
CPU Unit (103 x 143 x 42 mm)

CON Unit (103 x 143 x 42 mm)

K462-1W / K463-1W







CPU Unit (103 x 143 x 29 mm)

Front

Back

Front

Back

Front

Back

CON Unit (103 x 143 x 29 mm)

K462-2W / K463-2W









CPU Unit (103 x 143 x 42 mm)

CON Unit (103 x 143 x 42 mm)

K462-SA / K463-SA









CPU Unit (103 x 143 x 42 mm)

CON Unit (103 x 143 x 42 mm)

K462-DA / K463-DA









CPU Unit (103 x 143 x 42 mm)

CON Unit (103 x 143 x 42 mm)

Front

Back

461 | 462 | 463 Series

0

CPU Unit

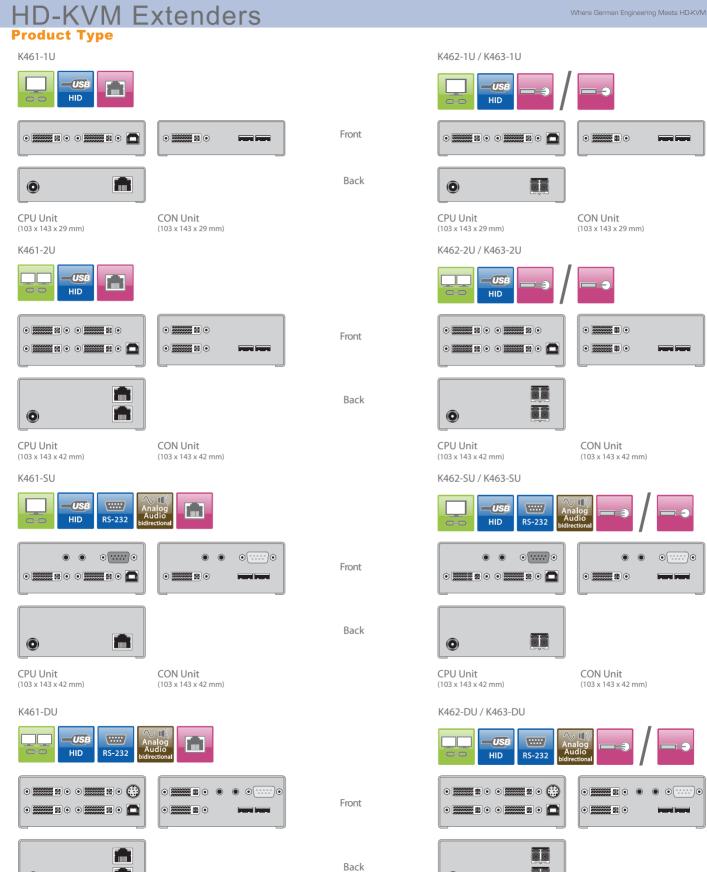
(103 x 143 x 42 mm)

CON Unit

(103 x 143 x 42 mm)

Thse.

Where German Engineering Meets HD-KVM



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CON Unit

(103 x 143 x 42 mm)

0

CPU Unit

(103 x 143 x 42 mm)

461 | 462 | 463 Series HD-KVM Extenders



Where German Engineering Meets HD-KVM

Order Numbers



Please note that the devices are operated in pairs (one installed as the CPU Unit in conjunction with an appropriate console located CON Unit). Part numbers beginning with "K" contain both CPU and CON Unit for the operation and include all necessary cables and power supplies.

Product	Number of Monitors	Single/ Dual Link	Maximum Resolution	—USB	(1) PS2	RS-232	Ú ∜ AUDIO	Data Transfer	Part No.
DVXi/ET-PC		c	1920x1200		V				K461-1W
DVXi/ET-PC2			1920x1200		V				K461-2W
DVXi/ET-UC		G5	1920x1200	HID					K461-1U
DVXi/ET-UC2		င္	1920x1200	HID					K461-2U
DVXi/ET-PCA		co	1920x1200		V	V	Analog bidirectional		K461-SA
DVXi/ET-PCA2		CD	1920x1200		V	V	Analog bidirectional		K461-DA
DVXi/ET-UCA		င္	1920x1200	HID		V	Analog bidirectional		K461-SU
DVXi/ET-UCA2		co	1920x1200	HID		V	Analog bidirectional		K461-DU
DVXi/ET-PM		æ	1920x1200		V				K462-1W
DVXi/ET-PM2		œ	1920x1200		V				K462-2W
DVXi/ET-UM		င္	1920x1200	HID					K462-1U
DVXi/ET-UM2		c	1920x1200	HID					K462-2U
DVXi/ET-PMA		CD	1920x1200		V	V	Analog bidirectional		K462-SA
DVXi/ET-PMA2			1920x1200		V	V	Analog bidirectional		K462-DA
DVXi/ET-UMA		c	1920x1200	HID		V	Analog bidirectional		K462-SU
DVXi/ET-UMA2		c	1920x1200	HID		V	Analog bidirectional		K462-DU
DVXi/ET-PS		CD	1920x1200		V				K463-1W
DVXi/ET-PS2		င္	1920x1200		V				K463-2W
DVXi/ET-US		æ	1920x1200	HID				—	K463-1U
DVXi/ET-US2			1920x1200	HID				—	K463-2U
DVXi/ET-PSA		æ	1920x1200		V	V	Analog bidirectional	—	K463-SA
DVXi/ET-PSA2		co	1920x1200		V	V	Analog bidirectional		K463-DA
DVXi/ET-USA		æ	1920x1200	HID		V	Analog bidirectional		K463-SU
DVXi/ET-USA2		æ	1920x1200	HID		V	Analog bidirectional		K463-DU

Digital KVM Extenders 461 | 462 | 463 Series HD-KVM Extenders



Where German Engineering Meets HD-KVM

Rack Mount Hardware / Mounting Plates

Product	Part No.
19"- Installation Kit 1x4x DVXi Single-Head	455-4G
19"- Installation Kit 1x4x DVXi Dual-Head / Single-Head + Audio / Quad-Head	455-8G
19"- Power Supply for up to 3 devices	
Mounting plate for screw mounting - DVXi	455-1K
Mounting plate for snap assembly -DVXi	455-2K

Cables / Optional Accessories

Product	Part No.
CAT5, S-UTP-Simplex 4x2xAWG24	402-0J
Assembly including CATx connectors	402-0D
Multimode Break-Out-Cable 2G50	433-2M
Assembly including 2 multimode LC connectors	252-2L
Singlemode Break-Out-Cable 2E9	433-2S
Assembly including 2 singlemode LC connectors	252-2L
Power Supply 100240VAC/5VDC	260-5U

461 | 462 | 463 Series **HD-KVM Extender**



Where German Engineering Meets HD-KVM

DVXi/ET USB 2.0



4x USB High Speed + USB-HID Resolutions up to 1920x1200 24-bit color depth

Product Information

The DVXi/ET-USB2.0-Extender supports DVI graphics (DVI-D). USB keyboard / mouse (HID - Human Interface Device - including touch screen panels and other pointing or input devices) and the USB2.0 interface with full data rate for the connection of any USB 2.0 devices. Additionally, VGA is supported on the input side converter (K238 and K238-4F-4C). The turnout in the local unit allows you to connect a second monitor (USB HID devices).

The DVXi/ET-USB2.0 devices support resolutions up to 1920x1200 at 24 bit colors. Using a highly effective compression algorithm, the maximum data rate of transmission at resolutions up to (1920x1200) are possible with smooth, no-jerky video playout. With this unique compression scheme image quality is based on image packets and not resolution. Video signals can be extended up to 140m with any loss of quality.. With the optional fiber optic devices, extended distances up to 400m on multimode and 10km on singlemode can be easily achieved.

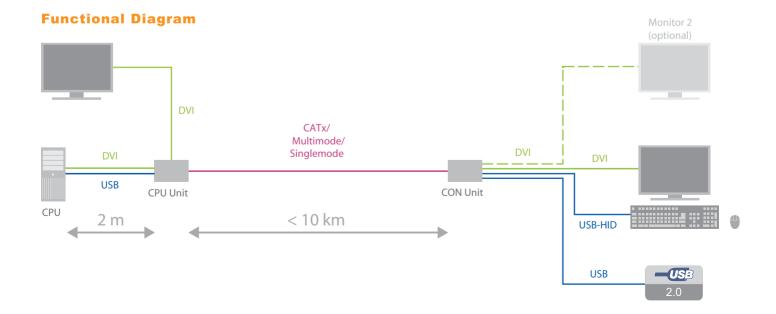
Product Features

- Unmatched image quality in all resolutions
- 1x DVI-D monitor with resolutions up to 1920x1200 @ 60Hz (1280x1024 @ 75Hz) for all cable types up to the maximum distance
- 4x USB 2.0 ports with full data rate for the connection of any USB 2.0 devices
- 2x USB HID interfaces (keyboards, mice and all HID = human interface device devices such as touch screen, graphic tablet)
- Local 1x DVI-D Monitor
- Maximum resolution at all distances
- Compatible with all operating systems
- Compatible with many KVM switches
- Rack Mount 19 "cabinets. It Up to 4 devices in a 1U. This saves expensive rack space. ⁻

Technical Data Power Supply Informatioin 90-240VAC / 0,5 A / 47-63 Hz Maximum Resolution DVI Single Link 1920x1200@60Hz/24-bit Maximum Cable Distances 400 m 10 km

Multimode

Singlemode

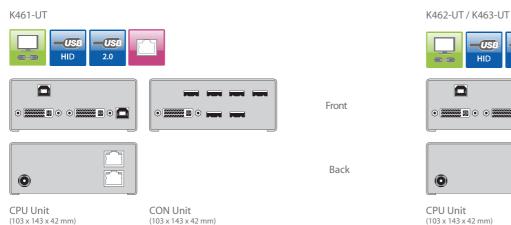


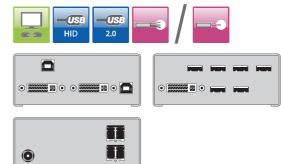
461 | 462 | 463 Series **HD-KVM Extender**



Where German Engineering Meets HD-KVM

Product Types





(103 x 143 x 42 mm)

CON Unit

(103 x 143 x 42 mm)

Order Numbers

(103 x 143 x 42 mm)



Please note that the devices are operated in pairs (one installed as the CPU Unit in conjunction with an appropriate console located CON Unit). Part numbers beginning with "K" contain both CPU and CON Unit for the operation and include all necessary cables and power supplies.

Product	Number of Monitore	Single/ Dual Link	Maximum Resolution	USB	Data Transfer	Part No.
DVX/ET-UCT		- 3	1920x1200	2.0 + HID		K461-UT
DVX/ET-UMT		- 3	1920x1200	2.0 + HID		K462-UT
DVX/ET-UST			1920x1200	2.0 + HID	-	K463-UT

Find suitable accessories and cables on page XX



In addition to the above devices are dual-head types with serial and audio options available. Please contact our consulting team for details and optional ordering information.

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Where German Engineering Meets HD-KVM

DVXi/ET 4x USB-HID



4x USB-HID

Resolutions up to 1920x1200

24-bit color depth

Compact Size

Product Information

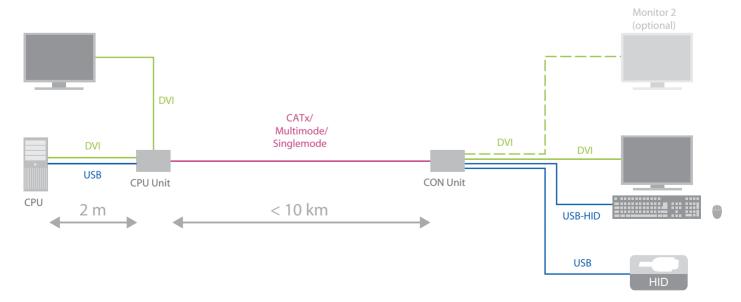
The DVXi/ET extender can transport up to 4 USB-HID devices and one DVI-D video over a a single connection. Using unique enhanced technlogy developed by IHSE, these devices support resolutions up to 1920X1200 for distances up to 10km over singlemode cable. Available in both single-head or dual-head devices, the DVXi/ET can be extend signals up to 140m over CATx, 400m over multimode fiber, or up to 10km over singlemode fiber. Using the best in video compression, you can be sure to get the most brilliant picture quality available while delivering perfect USB communications to four connected devices simultaneously.

Product Features

- Superior image quality in all resolutions up to 1920X1200
- Up to four USB-HID devices connected at the same time
- Available with CATx, Singlemode or Multimode fiber connections
- Single and Dual Head units available
- All units offer local access with a looping DVI-D output on the CPU device
- Mount up to four units in 1RU with the optional rack mount kit

Technical Data	
Power Supply Information	90-240VAC / 0,5 A / 47-63 Hz 5VDC
Maximum Resolution	DVI Single Link 1920x1200@60Hz/24-bit
Maximum Cable Distances	
CATx	140 m
Multimode	400 m
Singlemode	10 km

Functional Diagram



461 | 462 | 463 Series **HD-KVM Extender**



Where German Engineering Meets HD-KVM

Product Types









Front

Back



K462-1U2 / K463-1U2



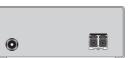




CON Unit

(103 x 143 x 42 mm)





CPU Unit (103 x 143 x 42 mm)

K462-2U2 / K463-2U2

CON Unit (103 x 143 x 42 mm)

K461-2U2

CPU Unit

(103 x 143 x 42 mm)







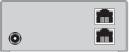
Front

Back





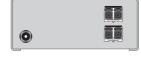






(103 x 143 x 42 mm)

CON Unit (103 x 143 x 42 mm)



CPU Unit (103 x 143 x 42 mm)

CON Unit (103 x 143 x 42mm)

Order Numbers



Please note that the devices are operated in pairs (one installed as the CPU Unit in conjunction with an appropriate console located CON Unit). Part numbers beginning with "K" contain both CPU and CON Unit for the operation and include all necessary cables and power supplies.

Product	Number of Monitors	Single/ Dual Link	Maximum Resolution	—USB	Data Transfer	Part No.
DVX/ET-UC		6-3	1920x1200	HID		K461-1U2
DVX/ET-UC2		- 3	1920x1200	HID		K461-2U2
DVX/ET-UM		- 3	1920x1200	HID		K462-1U2
DVX/ET-UM2			1920x1200	HID		K462-2U2
DVX/ET-US			1920x1200	HID		K463-1U2
DVX/ET-US2		C 3	1920x1200	HID	-	K463-2U2

Find suitable accessories and cables on page XX

461 | 462 | 463 Series HD-KVM Extender



Where German Engineering Meets HD-KVM

DVXi/ET DVI-I



VGA or DVI Input Options

Compact Size

Product Information

Offering the most advanced features for high quality video, the DVXi Extenders supports both VGA and DVI graphics (DVI-I) and USB keyboard/mouse HID interfaces. This includes touchscreens, pointing devices, and other USB input devices. With the local looping output on the CPU model, signal monitoring can be easily achieved at the local CPU device.

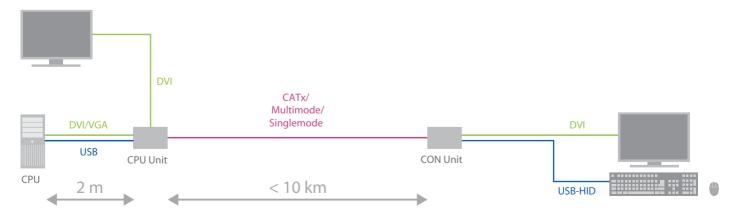
The DVXi/ET-DVI-I devices support resolutions up to 1920x1200 at 24 bit colors. Using a highly effective compression algorithm, the maximum data rate of transmission at resolutions up to (1920x1200) are possible with smooth, no-jerky video playout. With this unique compression scheme image quality is based on image packets and not resolution. Video signals can be extended up to 140m with any loss of quality. With the optional fiber optic devices, extended distances up to 400m on multimode and 10km on singlemode can be easily achieved.

Product Features

- Unmatched image quality in all resolutions
- DVI-I version (input signal either DVI or VGA)
- Optimal VGA signal conversion via OSD (phase, pixel frequency, color, position)
- Optional scaling to max. 1280x1024
- Video Resolutions up to 1920x1200 @ 60Hz (1280x1024 @ 75Hz) for all cable types up to the maximum distance
- USB-HID (keyboards, mice and all HID = human interface device devices such as touch screen, graphic tablet)
- Maximum resolution at all distances
- Compatible with all operating systems

Technical Data	
Power Supply Information	90-240VAC / 0,5 A / 47-63 Hz 5VDC
Maximum Resolution	DVI Single Link 1920x1200@60Hz/24-bit
Maximum Cable Distance	
CATx	140 m
Multimode	400 m
Singlemode	10 km

Functional Diagram

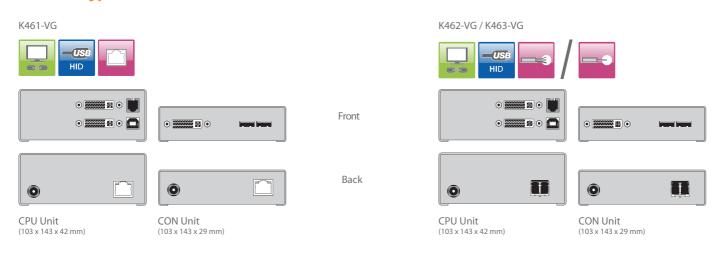


461 | 462 | 463 Series HD-KVM Extender



Where German Engineering Meets HD-KVM

Product Type



Order Numbers



Product	Number of Monitors	Single/ Dual Link	Maximum Resolution	—USB	Data Transfer	Part No.
DVX/ET-UCV		C-3	1920x1200	HID		K461-VG
DVX/ET-UMV		6-3	1920x1200	HID		K462-VG
DVX/ET-USV			1920x1200	HID		
Find suitable accessories a	nd cables on p	oage xx				K463-VG

461 | 462 | 463 Series HD-KVM Extender



Where German Engineering Meets HD-KVM

DVXi/ET Quad-Head



Variety of Interfaces

4x DVI-D (Quad-Head)

Full Frame 1RU

Internal Power Supply

Product Information

For high performance multi-head CPU devices, the DVXi Quad-Head offers extreme versatility. Up to four DVI seperate video signals can be connected to the same extender module, thus simplifying cable managment. With our superior compression algroithms, data rates up to 1920X1200 with full 24bit color can be supported. Even at the highest resolutions, video playback is smooth and seamless without jerky motion artificats.

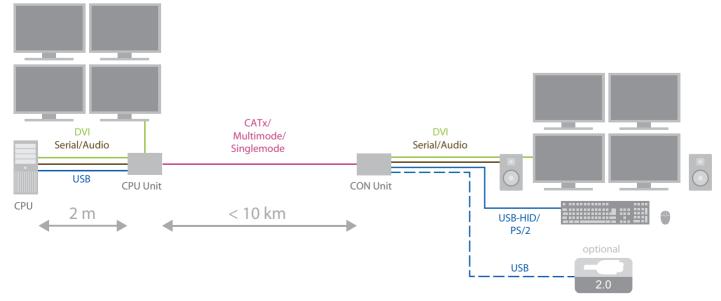
Each DVXi Quad-Head is offered in standard CATx or Fiber optic cable support. Distances up to 140m over CATx, 400m over multimode, or 10km over singlemode fiber can be achieved. And for the maximum in optimized cabling and data transmission, these devices can be ordered with CWDM fiber optics which allows all four video feeds to be transported down two individual fiber cables. The sleek case can be rack mounted or table mounted. The PS2 turnout in the local unit allows the connection of a second console (monitor, keyboard, mouse) directly to the PC.

Product Features

- 4 x DVI-D with max. Monitor Resolution: 1920x1200 @ 60Hz, 24 bit color depth or automatically fix 16Bit/24Bit
- 1x PS2 (keyboard / mouse) with second console at station
- 2x USB HID (keyboard / mouse or HID) with a second monitor port on the transmitter
- 1x Audio Interface
- 1x RS232 serial port
- Optional with four additional USB 2.0 outputs available (additional cable required)
- Optional CWDM (ie transmission over a single-mode duplex fiber)
- Cable Distances Options Include: (Order module with desired cable connections)
 - 4X: 140m with Cat5e, Cat6, Cat7 (without repeaters)
 - 4X: 200m with 62.5 μ multimode duplex fiber optic cable
 - 4X: 400m with 50µ multimode duplex fiber cable
 - 4X: 10km with 9µ singlemode duplex fiber optic cable
- Internal power supply
- Optional Installation kit available for rack mountng

Functional Diagram



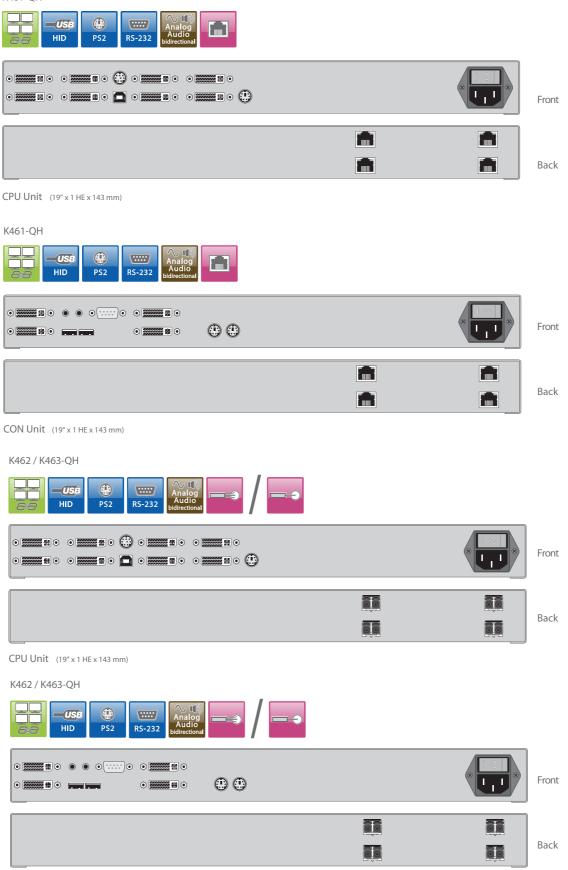


461 | 462 | 463 Series HD-KVM Extender



Where German Engineering Meets HD-KVM

K461-QH



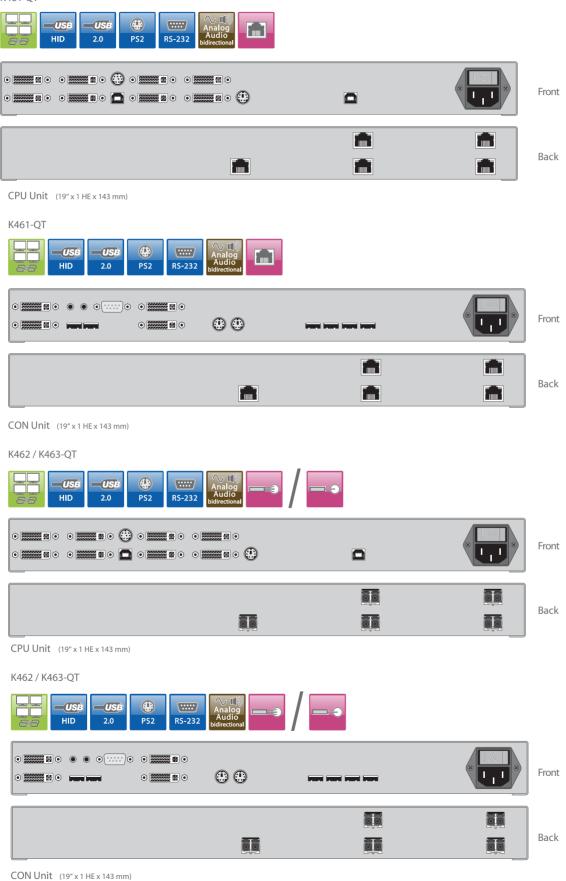
CON Unit (19" x 1 HE x 143 mm)

461 | 462 | 463 Series HD-KVM Extender



Where German Engineering Meets HD-KVM

K461-OT



461 | 462 | 463 Series HD-KVM Extender

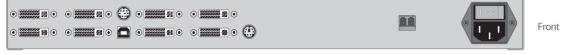


Where German Engineering Meets HD-KVM

Product Type

K463-QCWH







CPU Unit (19" x 1 HE x 263 mm), CON Unit (19" x 1 HE x 263 mm)

K463-QCWT







CPU Unit (19" x 1 HE x 263 mm), CON Unit (19" x 1 HE x 263 mm)

Order Numbers



Please note that the devices are operated in pairs (one installed as the CPU Unit in conjunction with an appropriate console located CON Unit). Part numbers beginning with "K" contain both CPU and CON Unit for the operation and include all necessary cables and power supplies.

Product	Number of Monitors	3	Maximum Resolution	—USB	PS2	RS-232	I (i) AUDIO	Data Transfer	Part No.
DVX/ET-QCH		C-3	1920x1200	HID	V	V	Analog bidirectional		K461-QH
DVX/ET-QCT		6-3	1920x1200	HID + 2.0	V	V	Analog bidirectional		K461-QT
DVX/ET-QMH		C-3	1920x1200	HID	V	V	Analog bidirectional		K462-QH
DVX/ET-QMT		-3	1920x1200	HID + 2.0	V	V	Analog bidirectional		K462-QT
DVX/ET-QSH		-3	1920x1200	HID	V	V	Analog bidirectional	-	K463-QH
DVX/ET-QST		-3	1920x1200	HID + 2.0	V	V	Analog bidirectional	-	K463-QT
DVX/ET-QCWH		6-3	1920x1200	HID	V	V	Analog bidirectional		+ CWDM K463-QCWH
DVX/ET-QCWT		~	1920x1200	HID + 2.0	V	V	Analog bidirectional	-	+ CWDM K463-QCWT

Find suitable accessories and cables on page xx .

473 Series HD-KVM Extender



Where German Engineering Meets HD-KVM

DSXi





Product Information

The DSXi Extender series supports DVI graphic interfaces (DVI-D) in an uncompressed mode and at the highest resolution (up to 1920x1200@60Hz). Additionally, all devices transmit USB keyboard and mouse signals. With our Enhanced USB Emulation (EUE) the device will also support a wide range of special USB HID Devices like touch screens or multimedia keyboards. With our USB 2.0 option, these devices will also support bi-directional communications with printers, scanners, and other high speed USB devices.

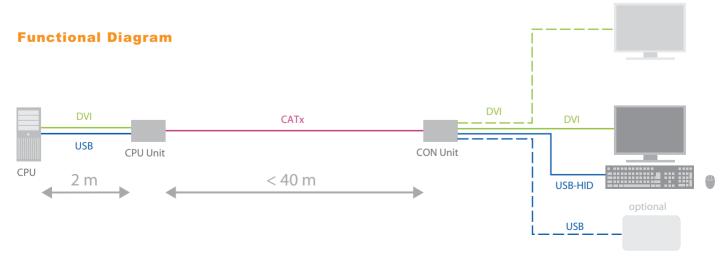
With uncompressed transfer of the DVI Data at full speed, our DSXi meets the highest demands for video transmission. This means no picture corruption or Frame-Drops can occur. Even on highest resolutions (1920x1200@60Hz) you'll enjoy a comfortable working display and a smooth picture movement on videos. The maximum transfer distance depends on the screen resolution. But even in the highest resolution of 1920x1200 you can easily bridge 40m. The small footprint design allows dense packaging where up to 5 devices can be mounted into 1RU tray. The device is small enough that is can be used in a desktop application without taking up much space.

Product Features

- Top Image Quality at all resolutions. The uncompressed data transmission supports all requirements on picture quality and frame rate.
- Transmission of the DDC- Information from remotely attached monitor
- Basic device to remotely locate Monitor (Single-Head/ Singlelink)and Keyboard/Mouse (USB-HID)
- Devices with USB2.0 are also available max. distances:
 - 40 m @ 1920x1200
 - 40 m @ 1920x1080
 - 40 m @ 1600x1200
 - 50 m @ 1280x1024 and lower
- Compatible with all operating systems
- Compatible with all major KVM Switches
- Rack Mount options (19"): Mount up to 5 devices in a 19"/1U rack mount kit.
 This saves expensive rack space

Technical Data Power Supply Information for CPU and CON units 90-240VAC / 0,5 A / 47-63 Hz 5VDC Maximum Resolutions DVI Single Link 1920x1200@60Hz/24-bit Maximum Distances 1600x1200; 1920x1080 1920x1200; 2048x1152 Lower Resolutions 50 m

Monitor 2



473 Series

HD-KVM Extender



Where German Engineering Meets HD-KVM

Product Types













Back









CPU Unit (80 x 110 x 29 mm)

CON Unit (80 x 110 x 29 mm)

CPU Unit (80 x 110 x 42 mm)

K473-DST

K473-DSH

CON Unit (161 x 110 x 29 mm)

















Back













CPU Unit (80 x 110 x 29 mm)

CON Unit (80 x 110 x 29 mm)

CPU Unit (80 x 110 x 42 mm)

CON Unit (161 x 110 x 29 mm)

Order Numbers



Please note that the devices are operated in pairs (one installed as the CPU Unit in conjunction with an appropriate console located CON Unit). Part numbers beginning with "K" contain both CPU and CON Unit for the operation and include all necessary cables and power supplies.

Product	Number of Monitors	Single/ Dual Link	Maximum Resolution	— USB	Data Transfer	Part No.
DSXi		÷	1920x1200	HID		K473-SSH
DSXi		æ	1920x1200	2.0		K473-SST
DSXi		œ	1920x1200	HID		K473-DSH
DSXi		co	1920x1200	HID + 2.0		K473-DST

Rack Mount Hardware / Mounting Plates

Product	Part No.
19"-Installation Kit 1x5x DSXi Single-Head	473-5G
19"-Installation Kit 1x5x DSXi Dual-Head	473-DG
Mounting Plates, Screw Type, for all DSXi Single-Head Units + Dual-Head CPU Units	473-1K
Mounting Plates, Snap Assembly, for all DSXi Single-Head Units + Dual-Head CPU Units	473-2K
Mounting Plates, Screw Type, for DSXi Dual-Head CON Units	473-1G
Mounting Plates, Snap Assembly, for DSXi Dual-Head CON Units	473-2G

Digital KVM Extenders473 Series HD-KVM Extender



Where German Engineering Meets HD-KVM

Cables

Product	Part No.
CAT5, Simplex (Leoni Kerpen), Length = 30m (factory terminated with connector and ferrites included)	473-S30
CAT5, Simplex (Leoni Kerpen), Length = 40m (factory terminated with connector and ferrites included)	473-S40
CAT5, Simplex (Leoni Kerpen), Length = 50m (factory terminated with connector and ferrites included)	473-S50

478 Series

HD-KVM Extender



DVEX 3500 / 4500



DVI up to 1680x1050

USB 2.0

Bidirectional Analog Audio

Only One CATx Cable

Product Information

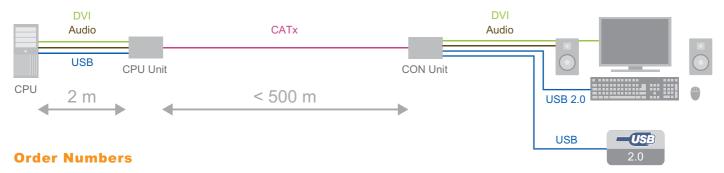
The DVEX Extenders lets you place a computer up to 1640ft (500m) away from the workstation area, connected with a single inexpensive Cat 5 (or better) cable. The system supports full remote HD video and USB, including control of the keyboard, mouse, webcam, flash drive, speakers, microphone and other USB devices, and features three USB ports on the remote extender. The DVEX Extenders support applications where the computer needs to be located remotely from the user. Applications include security, medical, digital signage and industrial environments where the computer can be located remotely to avoid harsh environments and to prevent unauthorized access. This solution improves data security along with increased work space by separating users from their PCs.

Product Features

- Supports distances up to 1640ft (500m) using a single Cat 5 (or better) cable.
- HD Resolution at Distance: Up to 1680 x 1050 resolutions, 24-bit color depth
- Full USB 2.0 Support. Extends keyboard, mouse, web camera, flash drive, speakers, microphone, and other USB devices.
- Audio: Integrated two channel audio with microphone and headphone I/O.
- Installation Ease: Utilizes a single Cat 5 (or better) cable for desktop extension
- Space Saving: The computer can be located remotely from the desktop area
- Security: Servers, computers, software and any other sensitive hardware can be kept in a secure location where maintenance can be performed easily

Technical Data Power Supply Information For CON Unit 100-240VAC / 0,6 A / 50/60 Hz 24VDC For CPU Unit 100-240VAC / 0,6 A / 50/60 Hz 5VDC Maximum Resolution DVI Single Link 1680x1050@60Hz/24-bit Maximum Distance 500 m Dimensions 175 x 112 x 30 mm

Functional Diagram





Please note that the devices are operated in pairs (one installed as the CPU Unit in conjunction with an appropriate console located CON Unit). Part numbers beginning with "K" contain both CPU and CON Unit for the operation and include all necessary cables and power supplies.

Product	Number of Monitors	Single/ Dual Link	Maximum Resolution	—USB	u ∭ AUDIO	Data Transfer	Part No.
DVEX 3500		co	1680x1050	2.0	Analog bi-directional		K478-1LTC
DVEX 4500		æ	1680x1050	2.0	Analog bi-directional		CATx over network K478-1LTN

472 Series

HD-KVM Extender



Where German Engineering Meets HD-KVM

DXXi





Product Information

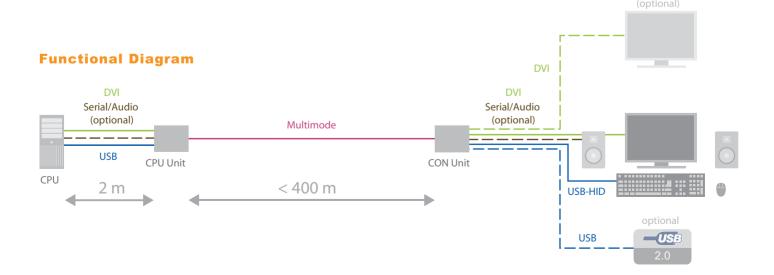
With high resolution flat panel displays becoming more prevalent and monitor resolutions increasing, it is natural to drive them digitally through their DVI or HDMI interface to obtain optimum image quality. The DXXi supports DVI-D extension up to resolutions of 2560x2048 (Duallink only) making it the perfect solution for long distance high resolution video requirements. In addition, the units can be configured to support USB 2.0 transparent or USB-HID for keyboard/mouse or other types of devices such as touch screens, tablets, or other pointing devices. Using the latests fiber optic technology for video transmission, the DXXi performs flawlessly due to the uncompressed transfer of DVI data at full speed without picture corruption or frame drops. Even the highest resolutions (1920x1200@Singlelink and 2560x2048 @Duallink) the DXXi bridges up to 400m (50/125 🗆) over multimode fiber. The high-density design allows up to 3 devices to be mounted into a 1RU tray. A special DXXi version comes with a built-in KVM- Switch in the Local Unit. This allows you to connect 2x CPUs at the Local Unit. A short key sequence, typed in at the Remote Unit, switches between the two CPUs. This saves an external KVM switch at the Local Unit.

Product Features

- Top Image Quality at all resolutions. The uncompressed data transmission supports all requirements on picture quality and frame rate
- Video resolutions Singlelink up to 1920x1200@60Hz (1280x1024@75Hz); Duallink up to 2560x2048@60Hz on all distances up to the maximum distance
- Transmission of the DDC- Information from remotely attached monitor Basic device to remotely locate Monitor (Single-Head/ Singlelink) and
- Keyboard/Mouse (USB-HID)
- USB-HID are Keyboard, Mice and all other HID= Human Interface Device Devices like Touch screen, Graphic tablets, ...
- Option Dual-Head: Support for two displays at the workplace for Dual Port Graphic Cards
- Option Duallink: supporting monitor resolutions up to 2560x2048@60Hz (Single-Head graphic card only)
- Option KVM- Switch: This allows you to connect 2x CPU at the Local Unit.
- Option USB 2.0: A transparent USB 2.0 Interface with full 480MBit/sec data transfer speed with 4port HUB in Remote Unit supports all known USB devices
- Rack Mount options (19"): Mount up to 3 devices in a 19"/1U rack mount kit.

Technical Data	
Power Supply Information	90-240VAC / 0,5 A / 47-63 Hz 5VDC
Data rates	
Serial (RS-232) Audio	19,2 kBaud HW-Handshake Bidirectional Stereo-Audio connection, fast CD-Quality, 16-bit, 38,4 kHz
Maximum Resolution	DVI Dual Link 2560x2048@60Hz/24-bit
Maximum Distance	
Multimode	400 m

Monitor 2



472 Series

HD-KVM Extender



Where German Engineering Meets HD-KVM

Product Type

K472-SSH







Back

Front



K472-SWH







CPU Unit CON Unit (133 x 180 x 43 mm) (133 x 180 x 43 mm)

101

CPU Unit (mit integr. Switch)

(133 x 180 x 43 mm)

CON Unit (133 x 180 x 43 mm)

K472-SSHA

















Back



CPU Unit (133 x 180 x 43 mm)

CON Unit (133 x 180 x 43 mm)

CPU Unit (133 x 180 x 43 mm)

CON Unit (133 x 180 x 43 mm)

K472-SSTA





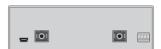


K472-SDT









Back



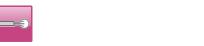
CPU Unit CON Unit (133 x 180 x 43 mm) (133 x 180 x 43 mm)

CPU Unit (133 x 180 x 43 mm)

CON Unit (133 x 180 x 43 mm)

K472-SDHA













|--|

CON Unit (133 x 180 x 43 mm)

____ 101 101 9999

CPU Unit (133 x 180 x 43 mm)

CON Unit (133 x 180 x 43 mm)

Front

Back

472 Series

HD-KVM Extender



Where German Engineering Meets HD-KVM

Product Type



















CPU Unit (133 x 180 x 43 mm)

K472-DSH



CON Unit

(133 x 180 x 43 mm)



• **...** • **.** • **...** • **...** •







HID

101

(:::::)

RS-232

CPU Unit (mit integr. Switch)

(133 x 180 x 43 mm)

K472-DSHA

101





0

Back



CPU Unit (133 x 180 x 43 mm)

K472-DSTA

K472-DWH

CON Unit (133 x 180 x 43 mm)

• **• • • • •**

CON Unit

(133 x 180 x 43 mm)

K472-DST

CPU Unit

(133 x 180 x 43 mm)













(:::::)

RS-232

TISA

2.0





Back



CPU Unit (133 x 180mm x 43 mm)

CON Unit (133 x 180 x 43 mm)

CPU Unit (133 x 180 x 43 mm)

CON Unit (133 x 180 x 43 mm)

472 Series

HD-KVM Extender



Where German Engineering Meets HD-KVM



Order Numbers

Please note that the devices are operated in pairs (one installed as the CPU Unit in conjunction with an appropriate console located CON Unit). Part numbers beginning with "K" contain both CPU and CON Unit for the operation and include all necessary cables and power supplies.

Product	Number of Monitors	Single/ Dual Link	Maximum Resolution	—USB	RS-232	I ¶∜) AUDIO	Data transfer		Part No.
DXXi		C-O	1920x1200	HID				(1 Fiber)	K472-SSH
DXXi		co	1920x1200	HID				(1 Fiber) with integrated switch	K472-SWH
DXXi		co	1920x1200	HID	V	Analog bidirectional		(1 Fiber)	K472-SSHA
DXXi	_	C- Đ	1920x1200	2.0				(2 Fiber)	K472-SST
DXXi		co	1920x1200	2.0	V	Analog bidrectional		(2 Fiber)	K472-SSTA
DXXi		6-5	2560x2048	HID				(2 Fiber)	K472-SDH
DXXi		6-5	2560x2048	HID	V	Analog bidirectional		(2 Fiber)	K472-SDHA
DXXi		6-5	2560x2048	2.0				(3 Fiber)	K472-SDT
DXXi		6-5	2560x2048	2.0	✓	Analog bidirectional		(3 Fiber)	K472-SDTA
DXXi		6-5	2560x2048	HID				(2 Fiber) with integrated switch	K472-DWH
DXXi		C-0	1920x1200	HID				(2 Fiber)	K472-DSH
DXXi		co	1920x1200	HID	V	Analog bidirectional		(2 Fiber)	K472-DSHA
DXXi		cə	1920x1200	2.0				(3 Fiber)	K472-DST
DXXi		C-0	1920x1200	2.0	V	Analog bidirectional		(3 Fiber)	K472-DSTA

19 "mounting hardware / mounting plates

Product	Part No.
19 "Rack Mount Kit for 1x 3x DXXi devices	437-1G
Mounting bracket for screw mounting for DXXi	285-2K
Mounting bracket for snap assembly for DXXi	286-2K
International power supply 100240VAC/5VDC	260-5U

Cable

Product	Part No.
DVI-D cable, length 3 m	436-D3
A USB-B cable, length 3 m	247-U2
Multimode Break-Out Cable 2G50/125	433-2M
Assembly Includes 2 multi-mode SC connector	252-1C
Assembly Multimode SC connector including 4x	2x 252-1C
Multimode Break-Out Cable 4G50/125	433-4M
Assembly Multimode SC connector including 6x	3x 252-1C
Assembly Multimode including 8x SC connector (with reserve)	4x 252-1C

437/438/439/442/443 Series DVI/VGA KVM Extenders



Where German Engineering Meets HD-KVM

DDXi





Product Information

DDXi has a modular architecture providing superb flexibility. Not only are all standard peripheral connections supported (PS2, USB), but also the different cabling interfaces (depending on model) for bridging the required distance: Use Cat5 network cable, Multi-mode or Singlemode fibre cables. Other interfaces may also be added such as Serial Port for Touch-Screen, Stereo Audio, Base-Band Video Transmission, USB, 10BaseT Network Management, Parallel Port or other custom interfaces.

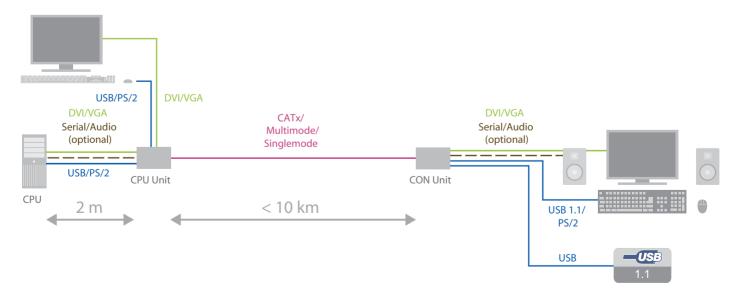
Its well-designed desktop housing makes it an attractive accessory on each desktop. Using mounting brackets, it may also be mounted under the desktop plate - you save additional space on your desktop. For rackmounting this device in 19" cabinets, which are often used in Networking or Server applications, you may mount the DDXi/LC, using rackmount kits into a single 1U space. You can mount one or two devices with this rackmount kit. This saves valuable rack space.

Product Features

- Supporting traditional analog VGA as well as digital DVI
- Convert VGA to DVI or DVI to VGA
- Easy direct connections (PS2-Keyboard, PS2-Mouse and Screen)
- DVI-I connector use adapter for VGA cable connections
- local access to add a second console directly at the CPU
- Mounting Brackets for to mount by screws or for snap on available.
- Using Rack-Mount-Kits, the devices might be mounted in server racks.
- Up to 3 devices may be integrated in 1U racksapce.
- 19-housing in 1U or 2U available to carry up to 3/6 devices.

Technical Data	
Power Supply Information	90-240VAC / 0,5 A / 47-63 Hz 5VDC
Maximum Resolution	1600x1200@60Hz (Fiber optional 1920x1200) Resolutions up to 1280X1024 at a maximum of 75Hz
Maximum Distances	
CATx	100 m
Multimode	400 m
Singlemode	10 km

Functional Diagram



437/438/439/442/443 Series **DVI/VGA KVM Extenders**



Where German Engineering Meets HD-KVM

Product Types









CON Unit

(133 x 170 x 41 mm)

K437-0W / K438-0W

(133 x 170 x 41 mm)









CON Unit (133 x 170 x 41 mm)

K442-2U / K443-2U





CPU Unit (133 x 170 x 41 mm)

101 101 ● #### # ●

101 101

CON Unit (133 x 170 x 41 mm)

K439-1W















CPU Unit (133 x 170 x 41 mm)



CON Unit (133 x 170 x 41 mm)





CON Unit

(133 x 170 x 41 mm)

Order Numbers



Please note that the devices are operated in pairs (one installed as the CPU Unit in conjunction with an appropriate console located CON Unit). Part numbers beginning with "K" contain both CPU and CON Unit for the operation and include all necessary cables and power supplies.

Front

Front

Front

Product	Number of Monitors		—USB	(4) PS2	Data transfer		Part No.
DDXi	_	1600x1200					K439-0W
DDXi		1600x1200		V			K439-1W
DDXi		1600x1200				optional 1920x1200 for 437-25"	K437-0W
DDXi		1600x1200		V		optional 1920x1200 for 437-25"	K437-1W
DDXi		1600x1200	1.1			optional 1920x1200 for 437-25"	K442-2U
DDXi		1600x1200			──	optional 1920x1200 for 437-25"	K438-0W
DDXi		1600x1200		V		optional 1920x1200 for 437-25"	K438-1W
DDXi		1600x1200	1.1			optional 1920x1200 for 437-25"	K443-2U



All units are in 19 "version available, up to 3 devices in 1 unit, up to 6 units in 2 RU

Digital KVM Extenders 437/438/439/442/443 Series DVI/VGA KVM Extenders



Optional Accessories

Product	Part No.
2,5 GBit WUXGA Upgrade (Multimode, LC Connector)	437-25
Serial/Audio Upgrade Kit	421-AU
Universal Power Supply 90230VAC/6VDC	260-4E

19" mounting hardware / mounting plates

Produktbezeichnung	Part No.
19 "Rack Mount Kit for 1x 3x DDXi devices	437-1G
19 "/ 1U housing for 1x 3x DDXi, 90 240VAC	433-1U
19 "/ 2U housing for 1x 6x DDXi, 90 240VAC	433-2U
Mounting bracket for screw mounting for DDXi	285-2K
Mounting bracket for snap assembly for DDXi	286-2K

Cable

Produktbezeichnung	Part No.
CAT5, S-UTP-Simplex 4x2xAWG24	402-0J
Assembly Multimode Includes 2 CAT5 connectors	402-0D
Multimode Break-Out-Cable 2G50	433-2M
Assembly Includes 2 multi-mode SC connector	252-2C
Singlemode Break-Out-Cable 2E9	433-2S
Assembly Includes 2 multi-mode SC connector	251-2S

461 | 462 | 463 Series HD-KVM Extender



Where German Engineering Meets HD-KVM

DVXi/ME Media Extender



Simple DVI-D Transport

Optional Audio / Serial

Rack Mount Kits Available

Product Information

Using a highly effective Compression algorithm, the maximum data rate is used best. Even on highest resolutions (1920x1200@24bit) you'll get a comfortable working and a smooth picture movement on videos. Comparing to other devices, the maximum transfer distance does not depend on the screen resolution! Even in the highest resolution of 1920x1200 you can easily bridge 140m using CATx. Using Fibre cables, you can get the same features with extended distances: 400m on Multimode 50μ or up to 10km using Singlemode 9μ .

Product Features

- crystal clear picture quality in all resolutions up to 1920x1200@60Hz
- All revisions for to remotely locate a monitor
- All versions have local access to add a second monitor directly at the CPU
- Compatible with all operating systems
- Compatible with all major KVM Switches
- Mounting Brackets for to mount by screws or for snap on available.
- Up to 4 devices may be integrated in 1U rackspace.
- included in package
 - local unit
 - remote unit
 - CPU-cable
 - DVI/VGA adaptors
 - Power Supply for local and remote unit

Technical Data

Power Supply Information 90-240VAC / 0,5 A / 47-63 Hz

SVDC

Data Rates

Serial (RS-232) Audio

CATx Multimode

Singlemode

19,2 kBaud HW-Handshake Bidirectional Stereo-Audio connection, fast CD-Ouality.

16-bit, 38,4 kHz

Maximum Resolution

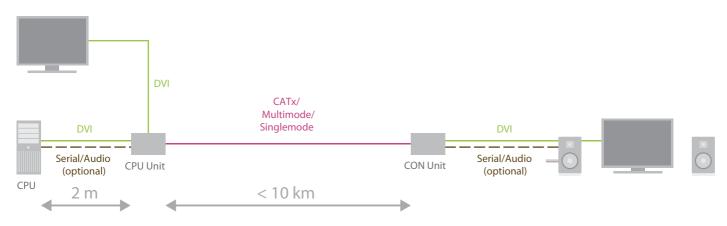
DVI Single Link 1920x1200@60Hz/24-bit

Maximum Cable Distance

140 m 400 m

10 km

Functional Diagram



461 | 462 | 463 Series **HD-KVM Extender**



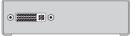
Where German Engineering Meets HD-KVM

Product Type









Front

Back



CON Unit (103 x 143 x 29 mm) K467-0M / K467-0S



CPU Unit (103 x 143 x 29 mm)

K467-AM / K467-AS

(:::::) RS-232

00

CON Unit (103 x 143 x 29 mm)

• ******** •

K467-AC

0

CPU Unit

(103 x 143 x 29 mm)

CPU Unit

(103 x 143 x 29 mm)













Front







CON Unit

(103 x 143 x 29 mm)





Back





(103 x 143 x 29 mm)

0

CON Unit (103 x 143 x 29 mm)

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Order Numbers



Please note that the devices are operated in pairs (one installed as the CPU Unit in conjunction with an appropriate console located CON Unit). Part numbers beginning with "K" contain both CPU and CON Unit for the operation and include all necessary cables and power supplies.

Product	Number of Monitors	Single/ Dual Link	Maximum Resolution	RS-232	II ∜) AUDIO	Data Transfer	Part No.
DVX/ME-EC		€-3	1920x1200				K467-0C
DVX/ME-ECA		€-3	1920x1200	V	Analog bidirectional		K467-AC
DVX/ME-EM		C-3	1920x1200				K467-0M
DVX/ME-EMA		C-3	1920x1200	V	Analog bidirectional		K467-AM
DVX/ME-ES		C-3	1920x1200				K467-0S
DVX/ME-ESA		C-3	1920x1200	V	Analog bidirectional		K467-AS

Find suitable accessories and cables on page xx .

471 Series

Repeater and Cross-Repeater



Where German Engineering Meets HD-KVM

Repeater / Cross Repeater





Product Information

When the K471 Repeater / Cross Repeater is configured as a repeater the signal transport is basically doubled. For instance, if the existing cable distance for CATx is 140m, the K471 will act as a receiving device up to 140m away and then transmit the signal up to an additional 140m to the final destination. (140m in X 140m out = 280m total) The same calculations can be used for fiber cable as well.

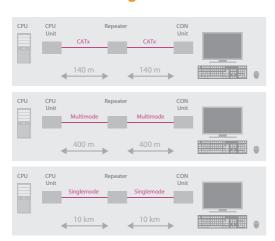
As a cross-repeater, the K471 unit acts as a media converter, taking CATx at the local site and converting the signal to a fiber transport. At the final destination, the fiber transport is then converted back to CATx. Both Singlemode and Multimode cabling is supported. The K471 unit supports the DVXi range of extenders for DVI and KVM applications.

Product Features

- Multi-function modules works as a repeater or cross-repeater
- Supports CATx, singlemode fiber or multimode fiber
- Can function as a cross-repeater for CATx to fiber
- Supports cable runs up to 140m over CATx

Technical Data	
Power Supply - external	90-240VAC / 0,5 A / 47-63 Hz 5VDC
Maximum Distances	
with CATx with Multimode (62,5μ) with Multimode (50μ) with Singlemode (50μ)	2x 140 m (device centered in cable run) 2x 200 m (device centered in cable run) 2x 400 m (device centered in cable run) 2x 10 km (device centered in cable run)
Dimensions	80 x 110 x 29 mm

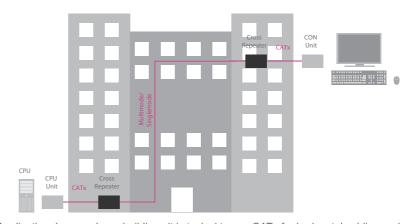
Functional Diagrams



Used as a repeater (CATx, multimode, single mode), it is possible double the length of cable, when the repeater is placed in equal distance from the CPU to CON.



When configured as a cross repeater it becomes a simple process to convert CATx to fiber optic transports. Cross repeaters must be used in pairs.



Application: In many large buildings it is typical to use CATx for horizontal cabling and fiber optics for vertical cabling. With cross repeaters combining common signal paths between floors can easily be accomplished or share CATx signals between buildings by using CATx to Fiber cross coverters.

Digital KVM Extenders471 Series Repeater and Cross-Repeater



Ordering Information



Part numbers beginning with "K" includes all operations necessary connection cables and power supplies

Product	Part No.
Repeater	
CATx Repeater	K471-CT
Multimode Repeater	K471-MM
Singlemode Repeater	K471-SS
Cross Repeater	
CATx/Multimode Cross Repeater	K471-CM
CATx/Singlemode Cross Repeater	K471-CS
Multimode/Singlemode Cross Repeater	K471-MS
Dual Cross Repeater	
CATx/Multimode Cross Repeater	K471-DM
CATx/Singlemode Cross Repeater	K471-DS

19"-Mounting Plate and accessories

Product	Part No.
19 "Rack Mount Kit for 1x 5x Repeater / Repeater Cross	473-5G
Mounting plate with screw hardware	473-1K
Mounting plate with snap-in hardware	473-2K

Cable/ Options

Product	Part No.
International power supply, 100-240VAC/5VDC (order for spare or replacement)	260-5U

470 Series

Converter



Where German Engineering Meets HD-KVM

CWDM MUX / DEMUX



Only one fiber cable for 4 channels

No power supply required

Product Information

Using special transceiver modules (GBICs), up to four independent data links can be transmitted over a single pair of singlemode fiber.

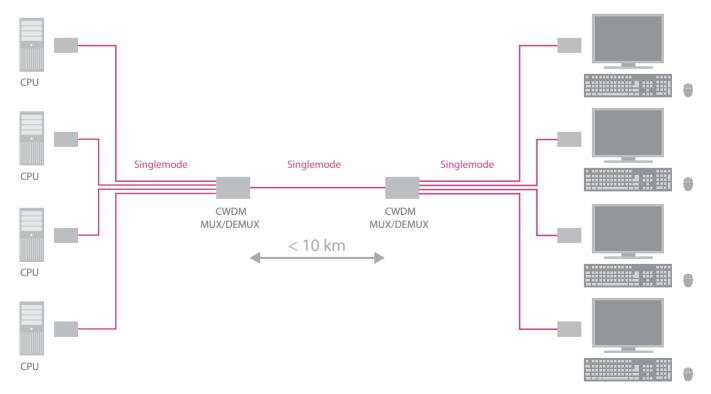
Configuring the DVXi-CWDM module requires that matched fiber wavelengths are utilized at the DVXi local and remote units as well. Transceivers - can be ordered as upgrades to existing extenders or as options for new DVXi extenders.

Product Features

- For use with DVXi and Draco Extenders
- Wavelength include: 1531nm, 1551nm, 1571nm, and 1591nm
- Matching transceivers keep active signals between CPU and CON modules
- Available for singlemode fiber cabling only
- No power supply required
- Small compact size with LC connectors

Technical Data Maximum Distance 10 km Dimensions 210 x 143 x 44 mm

Functional Diagram



470 Series Converter



Ordering Numbers

Product	Part No.		
CWDM MUX / DEMUX pair of devices for transmission of up to 4 independent data streams over a single fiber pair			
Transceiver pair (1531 nm) - replacement for existing devices	K470-31		
Transceiver pair (1551 nm) - replacement for existing devices	K470-51		
Transceiver pair (1571 nm) - replacement for existing devices	K470-71		
Transceiver pair (1591 nm) - replacement for existing devices	K470-91		
Transceiver pair (1531 nm) - upgrade to new devices	470-31		
Transceiver pair (1551 nm) - upgrade to new devices			
Transceiver pair (1571 nm) - upgrade to new devices	470-71		
Transceiver pair (1591 nm) - upgrade to new devices	470-91		

19" mounting hardware

Product	Part No.
19" Rack mount kit for 1x2x CWDM MUX/DEMUX	455-8G

458 Series DVI Extender



Where German Engineering Meets HD-KVM

DVI Equalizer

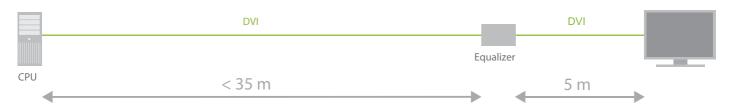




Product Information

The DVI Equalizer allows installation of a monitor up to 40m (35m + 5m) away from the graphic source. Video signals which are deformed by the cable, will be equalized for optimum display on all DVI monitors. The distance is divided by a maximum of 35m between graphic source and Equalizer and a maximum of 5m between the Equalizer and monitor. Using distances with more than 20m will require the use of cables with exceptional low absorbability.

Signal Diagram

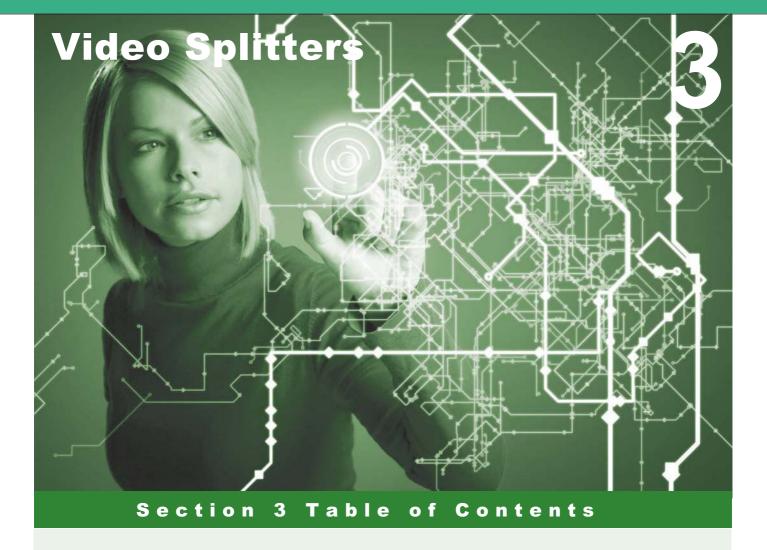


Order Number

Product	Number of Monitors	Single/ Dual Link	Maximum Resolution	Part No.
DVI Equalizer		-3	1920x1200	K458-1S
DVI Equalizer		<i>=</i> 3	2560x2048	K458-2S

Cables and Optional Accessories

Product	Part No.
DVI Single Link High Quality Cable, I=5 m	458-05
DVI Single Link High Quality Cable, I=35 m	458-35
DVI Dual Link High Quality Cable, I=5 m	458-D1
DVI Dual Link High Quality Cable, I=35 m	458-D6
Other Lengths 10 m, 15 m, 20 m, 25 m and 30 m	On Request
Power Supply 100240VAC/5VDC	260-5U



Draco U-Switch - 476 Series 4-/8 Port USB-Switch

2 Port DVI Splitter - 445 Series DVI dual port splitter



Converters & Splitters

476 Series USB Switch



Where German Engineering Meets HD-KVM

Draco U-Switch



Switch with keyboard or pushbutton

Up to 8 CPU's

Product Information

More and more workstations are operated by a single person. To meet these demands, the Draco U-Switch offers the perfect solution. Whenever you need to run several CPUs with a single keyboard and mouse this device offers the best solution. The Draco U-Switch works perfectly with our DVI extenders and provides the function to switch up to 8 computers and monitors with only one keyboard and mouse.

With a Hot- Key- sequence or via push buttons, the user may switch keyboard & mouse fast between the screens. Additionally, each monitor can be equipped with an LED to signal the active monitor & CPU. The Draco U-Switch provides a constant connection state for the mouse and keyboard which provides for instant switching without delay.

Product Features

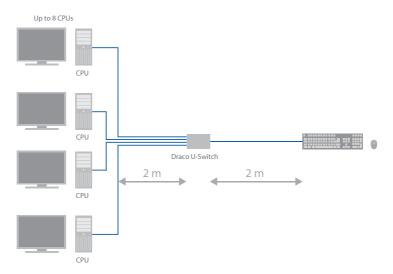
- Fast, delay-free switching
- Switching via keyboard or remote switches can be connected
- Display of the currently active monitor to be connected LEDs optional
- Compatible with all products and Draco DVXi
- Compatible with all USB HID devices
- Using Rack in 19 "cabinets can be installed. It can be installed up to 2 devices in 1U be. This saves expensive rack space.

Technical Data

Power Supply Information 100-240VAC / 0,5 A / 47-63 Hz 5VDC

Dimensions 209 x 143 x 42 mm

Functional Diagram



Ordering Information

Product	Part No.
Draco U-Switch, 4-port USB-Switch	K476-4U
Draco U-Switch, 8-port USB-Switch	K476-8U
19"- Rack Mount Kit for 1x2x Draco U-Switch	455-8G

Converters & Splitters

445 Series USB Switch



Where German Engineering Meets HD-KVM

2-Port Smart DVI Splitter



Easy Installation
Input / Output: DVI-D
No Power Supply Needed

Product Information

The DVI splitter cable is used to output two identical signal sources to two display devices. This is popular for configurations where only one DVI output is available on the graphics card and signals need to be shared to a local monitor and projector system simultaneously. The device is powered through an attached USB cable to the CPU device. DDC information can be pulled from either port for resolutions up to 1920X1200 at full color depth.

Technical Data

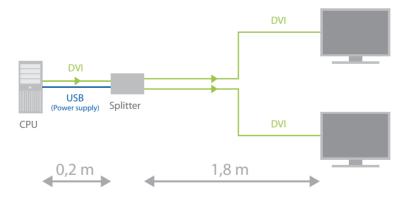
Maximum Resolution DVI Single Link
1920x1200@60Hz/24-bit

Dimensions Cable Lengths 0,2 / 1,8 m
100 x 49 x 23 mm

Product Features

- Connection for 2 DVI monitors
- Supports transport of DDC information
- DVI cable integrated to control module
- Power provided via USB port

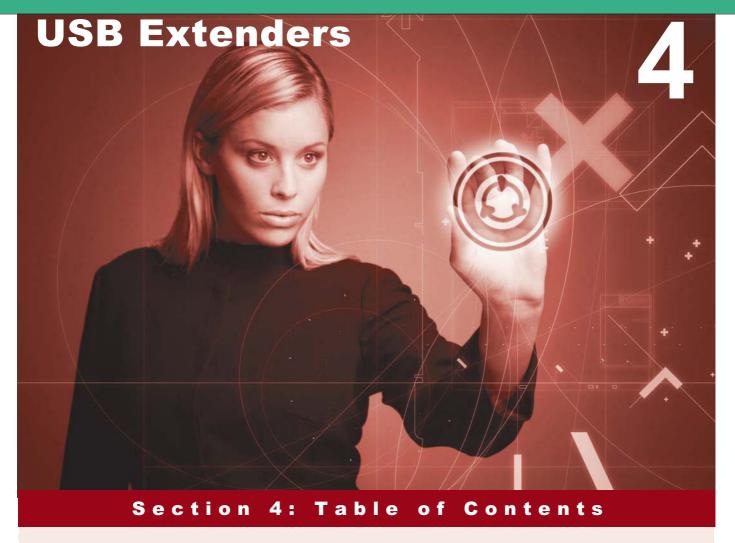
Functional Diagram



Ordering Information

Product	Part No.
2-port DVI splitter	445-2X

Scanmagnetics Oy | Helsinki, Finland | Puh: 09-271 2200 | Fax: +358-9-271 2210 | Eml: ihse [a] scanmagnetics.com



ICRON Ranger 2204 / 2212 - 417 Series Transmission of USB 2.0 up to 100m

ICRON Ranger 2224 / 2244 - 417 Series Transmission of USB 2.0 up to 500m (multimode) and 10km (singlemode)

ICRON WiRanger - 417 Series Wireless transmission of USB

USB Extenders

417 Series

USB Extender



OD EXIGNACI

ICRON Ranger 2204 / 2212



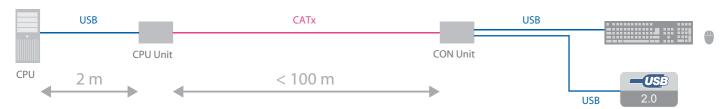
The USB Ranger® 2204 is a four port USB 2.0 high speed extension solution, enabling USB 2.0 connections at up to 480Mbps over 100m/330ft of Cat 5 cabling. The Ranger 2204 provides a remote four port USB 2.0 powered hub delivering standard 500mA power and supporting all USB device types including Isochronous web cams. The USB Ranger 2204, and the Ranger 2200 family of products are powered by ExtremeUSB®, enabled by Icron's LionsGate™ USB Extension ASIC. ExtremeUSB provides true USB 2.0 extension at up to 480Mbps over a variety of media, without the need of additional software drivers. A true plug-and-play solution, the Ranger 2204 is compatible with all leading operating systems, and supports all USB device types from high-speed web cams, hard drives, printers, scanners, audio devices, touch screens, digital cameras and game controllers.

Product Features

- Model 2212 = 2 USB Ports, 2204 = 4 USB Ports
- Extend USB 2.0 and USB 1.1 up to 100m over CATx cable
- True plug and play, ready to operate out of the box. No drivers required
- Works on all operating systems
- AC power adapter at remote unit (optional)
- Ideal for USB printers, scanners, hard drives and audio devices

Technical Data	
Power Supply For Rover 2212 CPU Unit	110/240VAC; 0,5 A; 50/60 Hz 5VDC
For Rover 2204 CON Unit	110/240VAC; 0,5 A; 50/60 Hz 5VDC
Data Rates	
USB	High-Speed (480 MBit/s) (USB 2.0) Full-Speed (12 MBit/s) (USB 2.0 & 1.1) Low-Speed (1.5 MBit/s) (USB 2.0 & 1.1)
Maximum Distance	
CATx	100 m
Dimensions	
Rover 2212 / Rover 2204	44 x 87 x 24 mm / 110 x 69 x 28 mm

Functional Diagram



Ordering Information



Please note that the devices can be operated in pairs (one installed on the CPU CPU Unit in conjunction with an appropriate, to the console located CON Unit). Part numbers beginning with "K" contain both CPU, and CON Unit for the operation and all necessary cables and power supplies

Product	— USB	Data Transfer		Part No.
Icron Ranger 2204	2.0 / 1.1		inkl. USB-Cable 1,8m	K417-5D
Icron Ranger 2212	2.0 / 1.1		inkl. USB-Cable 1,8m	K417-5R



USB Extenders

417 Series USB Extender



ICRON Ranger 2224 / 2244

Distances up to 10km
USB 2.0



Product Information

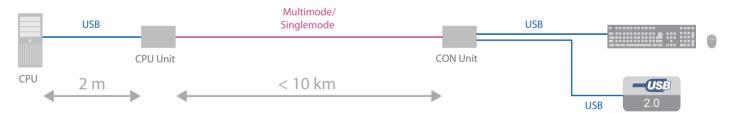
Icron Ranger 2224 and 2244 support the transmission of USB 2.0 signals up to 10 km. USB 2.0 devices with the full transfer rate of 480 Mbit / s used be. Transmission is via fiber optics (multimode or single mode). The units are equipped with 4 ports

Product Features

- Equipped with 4 USB ports
- Supports Low-Speed, Full-Speed and High-Speed USB
- Maximum speed: 480 Mbit / s
- Connection distance:
 - Multi-Mode 500m (Model 2224)
 - Single mode 10 km (model 2244)
- Power supply:
 - CPU Unit: About CPU
 - CON Unit: via included power supply

Technical Data Power Supply Information For CON Units 110/240VAC; 0,6 A; 50/60 Hz 5VDC Data Rates High-Speed (48 MBit/s) (USB 2.0) Full-Speed (12 MBit/s) (USB 2.0 & 1.1) Low-Speed (1.5 MBit/s) (USB 2.0 & 1.1) USB Maximum Distances Multimode (2224) 500 m Singlemode (2244) 10 km Dimensions all devices 100 x 76 x 26 mm

Functional Diagram



Ordering Information



Please note that the devices can be operated in pairs (one installed on the CPU CPU Unit in conjunction with an appropriate, to the console located CON Unit). Part numbers beginning with "K" contain both CPU, and CON Unit for the operation and all necessary cables and power supplies

Product	— USB	Data Transfer		Part No.
Icron Ranger 2224	2.0 / 1.1		includes USB-Cable 1,8m	K417-5M
Icron Ranger 2244	2.0 / 1.1	—	includes USB-Cable 1,8m	K417-5S

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USB Extenders

417 Series

USB Extender



ICRON WiRanger





Product Information

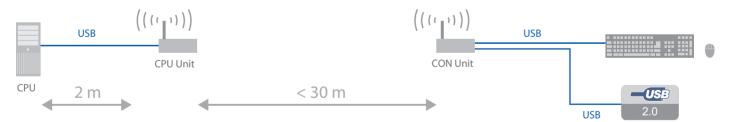
Icron WiRanger support the transmission by wireless USB 2.0 / 1.1 signals via Wireless LAN up to 30 m (depending on radio and environment). Radio-based devices are recommended for high demands on flexibility, or if one should refrain from cabling. There can be up to 14 devices (including hubs) connected. The maximum data rate is 54 Mbit / s.

Product Features

- Equipped with 4 USB ports
- Supports low-speed, full-speed and high-speed USB
- 64-bit WEP encryption
- Up to 14 devices (including hubs) connected
- Power supply via the supplied power supplies

Technical Data	
Power Supply Information	110/240VAC; 0,5 A; 50/60 Hz 5VDC
Data rates	
USB	Up to 54 Mbit/s depending on radio and operating environment
Maximum Distance	
Wireless	30 m
Dimensions	110 x 69 x 28 mm

Functional Diagram



Ordering Information



Please note that the devices can be operated in pairs (one installed on the CPU CPU Unit in conjunction with an appropriate, to the console located CON Unit). Part numbers beginning with "K" contain both CPU, and CON Unit for the operation and all necessary cables and power supplies

Product	— USB	Data Transfer	Part No.
WiRanger	2.0 / 1.1	((101))	K417-1W



Mounting Brackets and Plates Screw Hardware or Snap-in Mounting Hardware

19"-Rack Mount Kits
Parts and Assemblies for 19" Rack Units

Power Supplies Internal and External

Accessories & Cable Installation Accessories



Mounting brackets and plates





Ordering Information



Each angle assembly includes 2 pieces per set or 1 plate per set

Product	Part No.
Mounting bracket for housing (DDXi, DXXi, DAVX, VTO2, DVIPLEX)	
Mounting bracket with screw hardware	285-2K
Mounting bracket with snap-in hardware	286-2K
For case type I (DVXi, Draco Extender Compact, Draco minor, RGB/DVI converter)	
Mounting bracket with screw hardware	455-1K
Mounting bracket with snap-in hardware	455-2K
For case type II (DSXi, Repeater)	
Mounting plate with screw hardware	473-1K
For Draco Extender Vario 2-, 4-, and 6-case housing	
Fastening strips for screw or snap on for 2 -, 4 - and 6-housing	474-VPLATE

Accessories & Cable

Installation Accessories



Where German Engineering Meets HD-KVM

19"-Rack Mount Kits



Ordering Information

Product	Part No.
For the installation of DVXi, Draco Extender compact, U-Switch, Media / DVI converter and RGB / DVI converter devices in 19 "cabinets. Dual-Head kits are also used for single-head units with serial / audio and Draco minor switches (housing form I)	
Mounting Kit for the opening of 1x 4x Single-Head units	455-4G
Mounting Kit for the opening of 1x 4x Dual-Head units	455-8G
For installation of repeater / DSXi equipment (housing form II) in 19 "cabinets	
Mounting Kit for the reception of 1x 5x DSXi single head devices or repeaters	473-5G
Mounting Kit for the reception of 1x 5x DSXi Dual-Head units	473-DG
For the installation of DDXi, DXXi, DAVX, VTO2, DVIPLEX in 19 "cabinets (housing form III)	
Mounting Kit for the reception of 1x 3x devices	437-1G
For installation of 2 -, 4 - and 6-Draco Vario Extender devices in 19 "cabinets	
19 "/ 1U rack mount kit for 2 -, 4 - and 6-housing	474-VRMK
For the installation of SDBX devices in 19 "cabinets	
19 "mounting bracket for SDBX devices except SDBX/S1 / SA 1, D1, DA1 CPU units - for up to 3 units (depending on type)	434-2G
19 "angle for SDBX/S1, SDBX/SA1, D1 CPU Units - for 1 unit	434-1G

Accessories & Cable Power Supplies



Where German Engineering Meets HD-KVM

Power Supply



Ordering Information

Product	Part No
Desktop power supply with ferrules 230V-12V/2A	260-2B
Power supply unit 230V-12V/2A with spade	260-3B
Desktop power supply with ferrules 115V-12V/2A	260-3A
International Power Supply, 90-230VAC for RGB/VGA Sync Stripper	260-2C
International Power Supply, 90-230VAC with ferrules	260-2D
International Power Supply, 90-230VAC with 6-pin DIN connector	260-2E
International Power Supply, 90-230VAC for DMXi	260-3E
International Power Supply, 90230VAC for DDXi, DAVX, VTO2 (HIROSE)	260-4E
International Power Supply, 90230VAC for DVXi und DDXi-USB	260-5U
International Power Supply, 90230VAC for DVIPLEX und RGB/DVI Converter	260-6H
International Power Supply, 90230VAC for DVISPLIT (2-port)	260-6A
19 "power supply for up to 3 devices DVXi	455-PS
Power supply for Draco Extender Vario 2-way enclosure (spare or redundancy)	474-PSU
Power supply for Draco Extender Vario 4-pin housing (replacement or redundancy)	474-PSU
Power supply for Draco Extender Vario 6-pin housing (replacement or redundancy)	474-PSU
Power supply for Draco Extender 19 "rack (spare or redundancy)	474-PSU:



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