

DB9M interface to connect a variety of external electrical devices



Eight contacts as inputs or outputs

Inputs for Multi-Screen Control Switching

Outputs to highlight active MSC monitor

Easy dip-switch configuration

PRODUCT INFORMATION

The add-on GPIO (General Purpose Input/Output) module in the Draco vario KVM extender series offers a DB9M interface to connect a variety of external electrical devices.

Integration

The additional module is to be used with all basic modules (CON units and Draco U-Switch module) in the Draco vario series. Up to eight contacts can be defined as inputs or outputs via an

integrated DIP switch. The programmed configuration is recognized and monitored by the Draco tera Tool, when used in a matrix setup.

Application

In multi-monitor applications based on a Draco tera MSC or U-Switch module setup, the GPIO add-on module allows LEDs to be connected to highlight the monitor with active keyboard/mouse control. This option was previously only

available in conjunction with addition of separate the Draco U-Switch. The GPIO add-on module also enables switching between monitors by an external dry-contact keypad or push buttons.

When used in combination with Draco tera KVM matrix systems, the I/O's can be used to force macro or favorite execution or to send predefined HID scan codes to a target source.

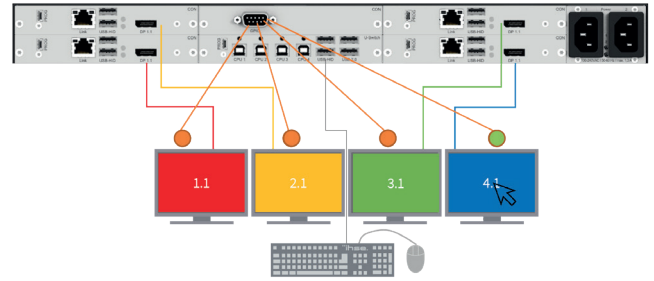
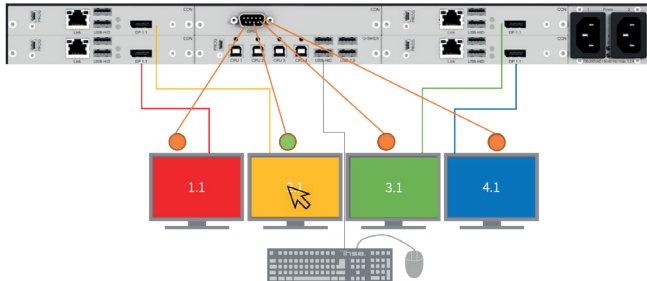
PRODUCT FEATURES

- Compatible with Draco vario CONs: Add-On module to be fitted on top of all CON mainboards
- Draco vario chassis compatible
- Half-size module to allow combinations of add-ons
- Compatible with modular U-Switch
- DIP-Switch configurable behaviour of the module:
 - 8 GPIO contacts - configurable as in or out
 - Connector interface DB9M
 - Configuration setting can be read via Draco tera Tool
- Execution of Draco tera macros
- 5 VDC output to drive e.g. LEDs
- Enhanced matrix features:
 - Execution of predefined User Macros or CON Macros
 - Execution of predefined User Favorites or CON Favorites
 - Execution of predefined HID Scan Codes (=keystrokes)

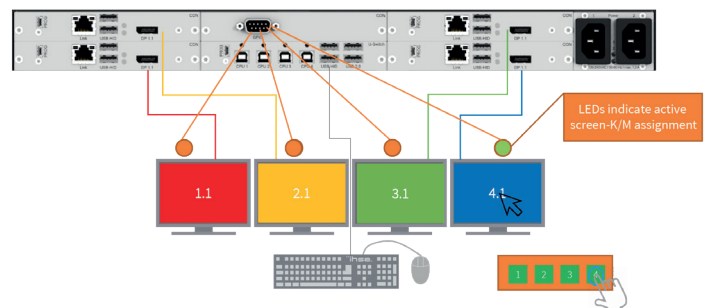
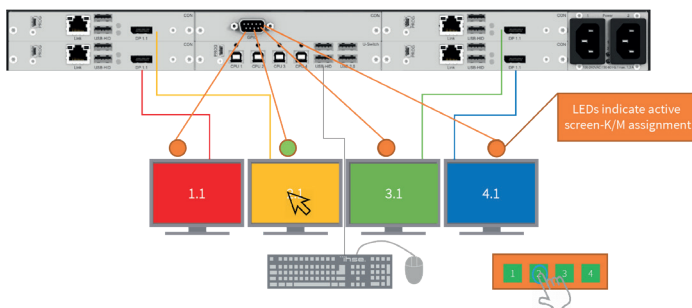
DB9M interface to connect a variety of external electrical devices

FUNCTIONAL DIAGRAM

Use Cases: Multi-Screen Control



Multi-Screen Control with dry contact push button trigger to indicate active screen



TECHNICAL DATA

Dimensions	129 x 20 x 145 mm	
Weight	approx. 80 g	
Current draw	10 mA (via the used Draco vario chassis*)	
Power supply	Power supply via the used Draco vario chassis*	
Connectors	DB-9 (M)	
Pin-outs	Pin	Description
	1	GPIO1 (active low)
	2	GPIO2 (active low)
	3	+5V
	4	GPIO3 (active low)
	5	GPIO4 (active low)
	6	GPIO5 (active low)
	7	GPIO6 (active low)
	8	GPIO7 (active low)
	9	GPIO8 (active low)

* For detailed information refer to the user manual.

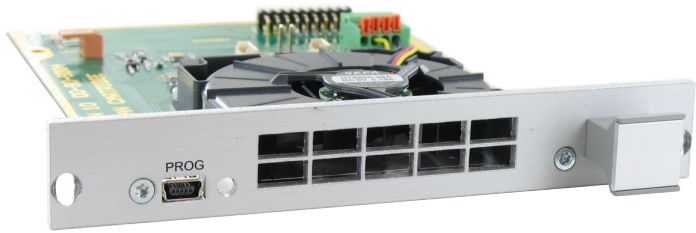
ORDER NUMBERS

GPIO MODULE	PART NO.
Draco vario CON Add-on module, 8x GPIO	R474-BGX



IHSE offers an online tool for free configuration of your KVM projects. It enables documentation and verification of individual extenders up to complete matrix applications. All KVM switches and extenders are available for selection, including add-on modules, chassis variants and special accessories: dtd.ihs.com

FAN CARTRIDGE MODULE



- Adds additional forced air cooling
- Hot-swap for slide-in chassis and retro-fit design
- Aids in space-saving KVM configurations
- adjustable acc. to temperature

PRODUCT DESCRIPTION

This high-tech miniature fan which is mounted on a PCB has a remarkable air flow performance despite its small dimensions. It is permanently protected electricaly against reverse polarity, blocking and thermal overloading. Due to the low rotor weight and precision balancing, it is virtually vibration-free. It is also insensitive to shock. The fan includes a pulse output which allows monitoring the correct function of the fan and can be temperature controlled. The PCB fits into a slot of a every Draco vario chassis. Hot-swappability is given for slide-in chassis with backplane. The plug connector at the end of the PCB is inserted into the backplane. The module features a mini USB port for service and configuration at the front panel.

TECHNICAL DATA

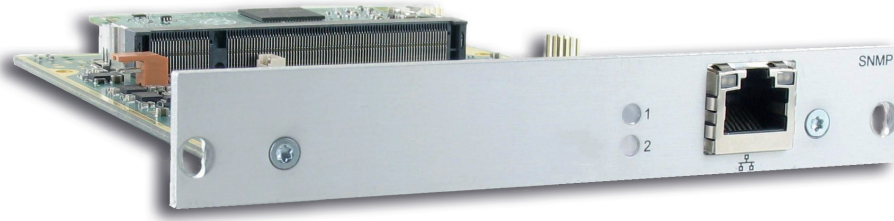
Fan	Dimensions (W x H x D)	59.5 mm x 59.5 mm x 12.5 mm (2.3" x 2.3" x 0.5")
	Weight	22 g (¾ oz)
	Bearing system	2 ball bearings ZZ
	Wire Length	250 mm
	Max. air flow	130 l/min
	Max. pressure	93 Pa
	Typ. rotor speed	3700
	Operating voltage	5 V +/- 0.5 V
	Max. start current	400 mA
	Typ. operation current	220 mA
	Life expectancy MTBF@40°C	550000 h
Front panel and PCB	Dimensions (W x H X D)	129 mm x 20 mm x 145 mm (5" x 0.8" x 5.7")
	Weight	ca. 80g (3 oz)
	Service interface	Mini USB
Emissions	Noise (1 m dist. from air intake side)	max. 33 dB
Environmental conditions	Operating temperature	5 to 45°C (41 to 113°F)
	Storage temperature	-25 to 60°C (-13 to 140°F)
	Relative humidity	max. 80% (no condensation)

ORDER NUMBER

474-MODFAN



IHSE offers an online tool for free configuration of your KVM projects. It enables documentation and verification of individual extenders up to complete matrix applications. All KVM switches and extenders are available for selection, including add-on modules, chassis variants and special accessories: [dsd.ihse.com](https://www.dsd.ihse.com)



Secure monitoring of health information of extender modules and chassis

Monitoring of signal data (USB, Video, Link)

Syslog and SNMPv3 support

Remote firmware update and configuration of extender modules

API control (remote link switching)

Retrofitting of existing installs

PRODUCT INFORMATION

The module 474-SNMPv3-R1 offers SNMP support for Draco vario series. SNMP allows the monitoring of function-critical parts of extenders and chassis. When using the SNMP function,

the device status can be monitored at any time.

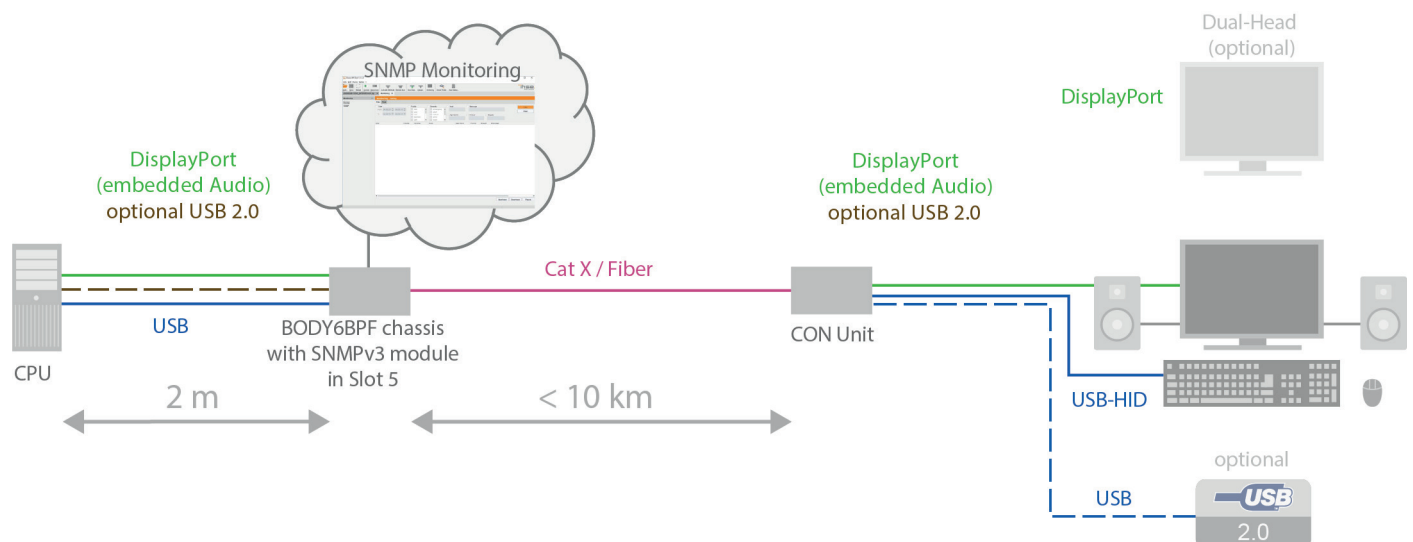
The SNMP module can be polled for system health information as well as sending SNMP traps based on an event.

Further, the installed extenders can be updated and configured from remote using Draco tera Tool. Consoles with redundant link interface and local input can be switched remotely via API.

PRODUCT FEATURES

- Designed for installation in 474-BODY6BP, 474-BODY6BPF and 474-BODY21/4U chassis
- Monitoring of function-critical parts of the chassis and integrated modules
- Monitoring of point-to-point connections and device status
- Extender parameters can be monitored via TCP/IP
- MIB file available (description of available status information)
- SNMP configuration via Draco tera Tool including remote firmware update via Draco tera Tool
- Support of syslog monitoring through Draco tera Tool or any existing syslog server

FUNCTIONAL DIAGRAM



TECHNICAL DATA

Dimensions	20 x 129 x 143 mm
Weight	110 g
Current draw	510 mA (via the used Draco vario chassis*)
Power consumption	4 W
Positioning in the chassis	BODY6BP/BODY6BPF: Slot 5, BODY21/4U: Slot 21
Connectors	Mini-USB, RJ45
Supported functionality	GET: Link status, module status, module type TRAP for BODY6BP/BODY6BPF: PSU monitoring, link switching, module status TRAP for BODY21/4U: link switching, module status, temperature

*For detailed information refer to the user manual

ORDER NUMBER

FUNCTIONS	CPU UNIT AND CON UNIT	PART NO.
Module with SNMPv3 (chassis configuration, add-on module suitable for 474-BODY6BP, 474-BODY6BPF and 474-BODY21/4U)		474-SNMPV3-R1

OPTIONAL ACCESSOIRES

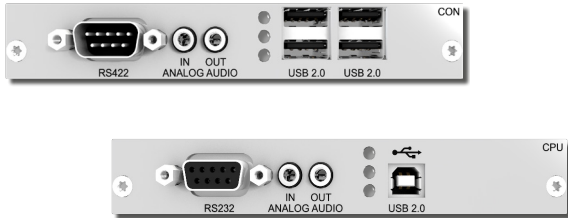
FUNCTIONS	PART NO.
Chassis for 6 modules, backplane and 2 integrated PSUs, hot swap function	474-BODY6BP
Chassis for 6 modules, backplane and 2 integrated PSUs with single-sided interfaces, hot swap function	474-BODY6BPF
4 RU / 19" rack chassis for 21 modules, integrated power supply, setup for redundant power supply, hot swap function	474-BODY21/4U



Draco System Designer
configure your own system

IHSE offers an online tool for free configuration of your KVM projects. It enables documentation and verification of individual extenders up to complete matrix applications. All KVM switches and extenders are available for selection, including additional modules, chassis variants and special accessories: dsd.ihse.com

Add-on module with USB 2.0 embedded flex speed, RS232, analog audio



USB 2.0 extension

4 port USB hub

Serial data transmission and analog audio

Supports full-duplex transmission

Audio line-level interface

PRODUCT INFORMATION

Function

The add-on module for USB 2.0 embedded plus RS232 and analog audio provides bidirectional USB 2.0 transmission, serial data and analog audio transmission to existing systems. USB signals are transmitted with a speed of up to 50/100 Mbit/s. The RS232 interface supports a full-duplex transmission. The signals are transmitted within the KVM data stream via the main extender module. No additional Cat X or fiber link is required.

Application

The module offers four USB ports on the CON side, each with 500 mA supply for various devices and applications. Many USB 2.0 devices such as mass storage, graphic tablets, touch screens and fingerprint sensors can be connected

near the workstation and integrated into existing systems. Depending on the device, USB data is transferred in isochronous or bulk process. The additional serial interface (RS232) includes hardware handshake. DCE devices may be connected to enable direct connection of devices such as touch screens or joysticks. The audio interface allows parallel, bidirectional stereo signal transmission. A line level input allows signal transmission from a sound card or any other line level devices. You can easily connect peripheral devices such as microphones, headsets or speakers.

De-embedding

Commonly used AV and broadcast signals, including SDI, HDMI and DisplayPort include both audio and

video signals within a single cable interface. When extended to the analog audio module, the audio signals are maintained within the AV interfaces and additionally extracted and converted to analog audio for output on dedicated audio connectors. The module also allows for the conversion of digital audio signals from CPU add-on modules to analog outputs.

Installation

The Draco vario system allows flexible mounting of modules on all main modules and in all Draco vario chassis.

PRODUCT FEATURES

- Enables bidirectional USB data transmission between workstation (CON unit) and computer (CPU unit)
- Transmission in the data stream of the main module, no additional port on the matrix required (function is also given over matrix)
- USB 2.0 support backward compatible to USB 1.1
- Maximum bandwidth 50/100 Mbit/s (flex speed)
- Parallel bidirectional stereo audio
- Enables serial data transmission between workstation (CON unit) and computer (CPU unit)
- Baud rate up to 19,200 Baud
- Module can be operated with all Draco vario and Draco ultra KVM extenders

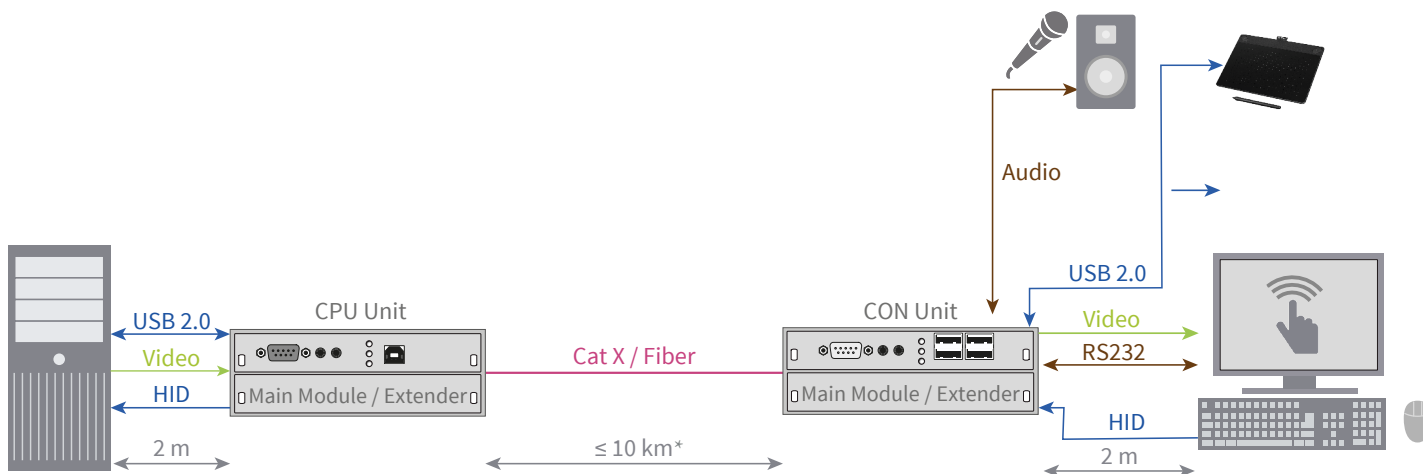
Add-on module with USB 2.0 embedded flex speed, RS232, analog audio

TECHNICAL DATA

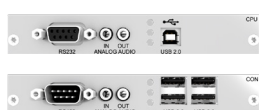
Part No.	L474-BAE2 (CPU) R474-BAE2 (CON)
Serial Interface (RS232)	
Connection format	DTE (Data Terminal Equipment)
Speed	Up to 19,200 baud
Data format	Format-independent
Analog Audio	
Transmission type	Digitilizes virtually CD quality (16 bit, 38.4 kHz)
Signal level	Line Level (5 Volt Pk-Pk maximum)
Input impedance	47 kOhm
Output impedance	270 Ohm
Connection	2x 3.5 mm stereo jack plug (Audio IN & Audio OUT)
USB 2.0 interface	
USB mode	USB 1.1/ 2.0 (50/100 Mbit/s)
Connection	CPU: USB Type B CON: 4x USB Type A
Maximum distance	Max. 10 km range (when used with fiber optic main modules and their incl. SFP for Single-Mode)*
Power consumption	CPU: 160 mA CON: 2240 mA (depending on connected devices)

* Related to fiber optic extension and depending on the SFPs used. Already verified maximum distance: 62 km. Farther distances require individual testing.

FUNCTIONAL DIAGRAM



ORDER NUMBERS



L474-BAE2

R474-BAE2

* Related to fiber optic extension and depending on the SFPs used. Already verified maximum distance: 62 km. Farther distances requires individual testing.



Serial data transmission and analog audio

Add-on for Draco vario extenders

No additional cable required

Supports full-duplex transmission

Audio line-level interface

PRODUCT INFORMATION

Function

The add-on module for RS232 and analog audio provides serial data and analog audio transmission to KVM extender systems. The serial interface supports a full-duplex transmission. The signals are transmitted within the KVM data stream via the main extender module. No additional Cat X or fiber link is required.

Application

The module offers one serial interface (RS232) with hardware handshake. DCE devices may be connected to enable direct connection of devices such as

touch screens or joysticks. The audio interface allows parallel, bidirectional stereo signal transmission. A line level input allows signal transmission from a sound card or any other line level devices. You can easily connect peripheral devices such as microphones, headsets or speakers.

De-embedding

Commonly used AV and broadcast signals, including SDI, HDMI and DisplayPort include both audio and video signals within a single cable interface. When extended to the analog audio module, the audio signals are maintained within the AV interfaces and

additionally extracted and converted to analog audio for output on dedicated audio connectors.

The module also allows for the conversion of digital audio signals from CPU add-on modules to analog outputs.

Installation

The module is designed as a half-slot width card to be combined with other add-on modules, e.g. USB 2.0 devices. This provides a significant increase in functionality and flexibility. The Draco vario system allows flexible mounting of modules on all main modules and in all Draco vario chassis.

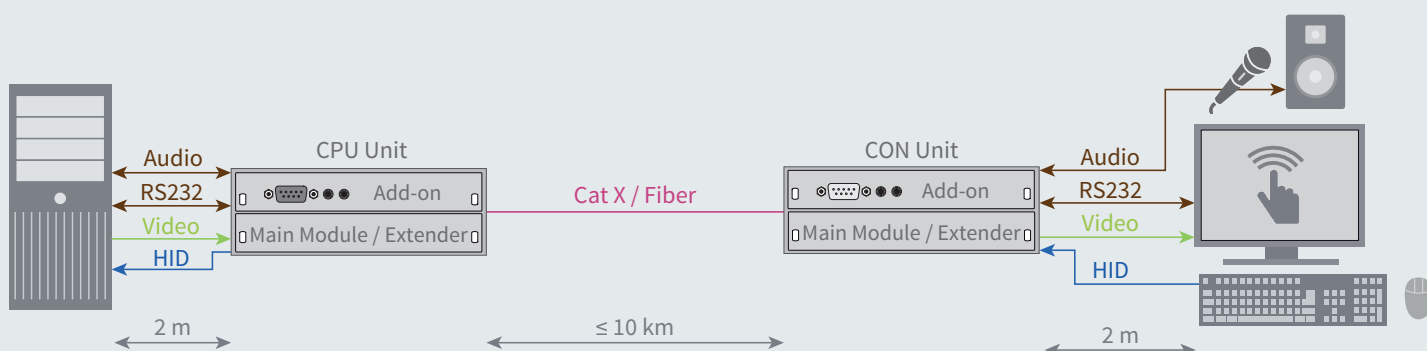
PRODUCT FEATURES

- Enables serial data transmission between workstation (CON unit) and computer (CPU unit)
- Transmission in the data stream of the main module, no additional port on the matrix required (function is also given over matrix)
- DCE (Data Communication Equipment) support
- Baud rate up to 115,200 Baud
- Line Level interface
- Parallel bidirectional stereo audio

Add-on module with RS232 and analog audio

TECHNICAL DATA	
Part No.	L474-BAX (CPU) R474-BAX (CON)
Serial Interface (RS232)	
Connection format	DTE (Data Terminal Equipment)
Speed	Up to 115,200 baud
Data format	Format-independent
Analog Audio	
Transmission type	Digitizes virtually CD quality (16 bit, 38.4 kHz)
Signal level	Line Level (5 Volt Pk-Pk maximum)
Input impedance	47 kOhm
Output impedance	270 Ohm
Connection	2x 3.5 mm stereo jack plug (Audio IN & Audio OUT)
Maximum distance	Cat X: 140 m Multi-mode: 1,000 m Single-mode (9µ): 10,000 m
Power consumption	CPU: 70 mA CON: 70 mA

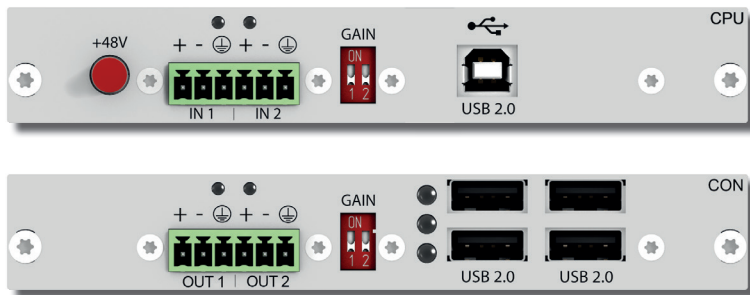
FUNCTIONAL DIAGRAM



ORDER NUMBERS

	L474-BAX
	R474-BAX

These models can also be extended by additional half-sided modules, for example USB 2.0 embedded or USB-HID. Combinations available on request.



Balanced, unidirectional audio

Add-on module for Draco vario extenders

No additional link cable required

Phantom powering possible

PRODUCT INFORMATION

Function

The add-on module provides balanced audio transmission to KVM extender systems. The module supports unidirectional 2-channel mono or 1-channel stereo studio-quality audio transmission. The audio interface supports line level and mic level audio sources. The signals are transmitted within the main board's KVM data stream. No additional Cat X or fiber link is required.

Application

The module is designed for the transmission of microphone or mixing console signals without interference, with no regards to the distances. It allows the connection of active loudspeakers to the CON Unit. Phantom powering of a condenser microphone and pre-amplification of a microphone are possible. The sample rate of the interface can be set variably. All symmetrical audio extenders are compatible with digital audio extenders.

Installation

The module is designed as a half-slot width card to be combined with other add-on modules, e.g. USB 2.0 devices. This provides a significant increase in functionality and flexibility. The Draco vario system allows flexible mounting of modules on all main modules and in all Draco vario chassis.

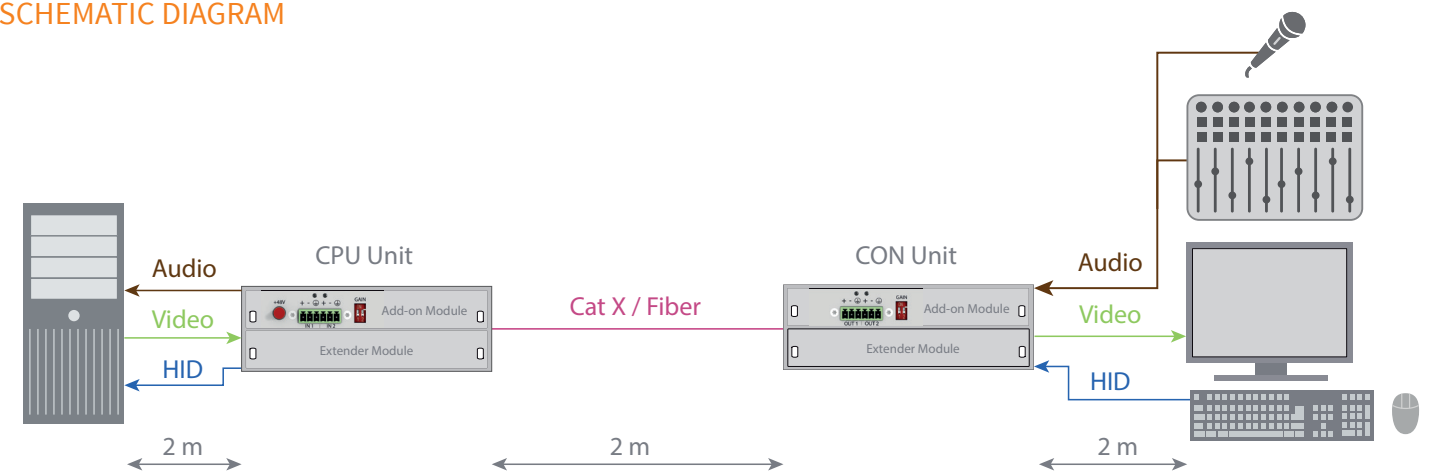
PRODUCT FEATURES

- Enables balanced audio transmission between workstation (CON Unit) and computer (CPU Unit)
- Compatible with Draco vario and Draco vario ultra extenders
- Transmission in the data stream of the main module, no additional port on the matrix required (function is also given over matrix)
- Supports condenser microphones and active loudspeakers
- Sample rate variably adjustable (default: 48.0 kHz)
- Supports audio embedding and de-embedding of HDMI and DisplayPort audio

Add-on module with balanced audio

TECHNICAL DATA	
Input/Output	6-pin Phoenix socket with 1. Pol: + 2. Pol: - 3. Pol: GND 4. Pol: + 5. Pol: - 6. Pol: GND
Signal level - Input	Max. 6,4 dBu balanced (Gain: 0 dB) Max. 0,44 dBu unbalanced (Gain: 0 dB)
Signal level - Output	8,1 dBu (balanced) 2,1 dBu (unbalanced)
Phantom powering	48 VDC
Preamplification	10 dB default
Bit depth	24 bit
Sample-Rate	32 bis 192 kHz adjustable
Power consumption	CPU: 500mA CON: 370mA
Number of slots	1
Dimensions	14,5 x 13 x 2 cm
Weight	60 g

SCHEMATIC DIAGRAM



ORDER NUMBERS

Draco vario CPU add-on module, balanced audio		CPU	L474-BB2X
Draco vario CON add-on module, balanced audio		CON	R474-BB2X
Draco vario CPU add-on module, balanced audio, emb. USB 2.0		CPU	L474-BB2E2
Draco vario CON add-on module, balanced audio, emb. USB 2.0		CON	R474-BB2E2



Balanced, unidirectional audio

Add-on for Draco vario extenders

No additional link cable required

Line level and mic level interface

Phantom powering possible

PRODUCT INFORMATION

Function

The add-on module provides balanced audio transmission to KVM extender systems. The module supports unidirectional 2-channel mono or 1-channel stereo studio-quality audio transmission. The audio interface supports line level and mic level audio sources. The signals are transmitted within the main board's KVM data stream. No additional Cat X or fiber link is required.

Application

The module is designed for the transmission of microphone or mixing console signals without interference, with no regards to the distances. It allows the connection of active loudspeakers to the CON Unit. Phantom powering of a condenser microphone and pre-amplification of a microphone are possible. The sample rate of the interface can be set variably. All symmetrical audio extenders are

compatible with digital audio extenders.

Installation

The module is designed as a half-slot width card to be combined with other add-on modules, e.g. USB 2.0 devices. This provides a significant increase in functionality and flexibility. The Draco vario system allows flexible mounting of modules on all main modules and in all Draco vario chassis.

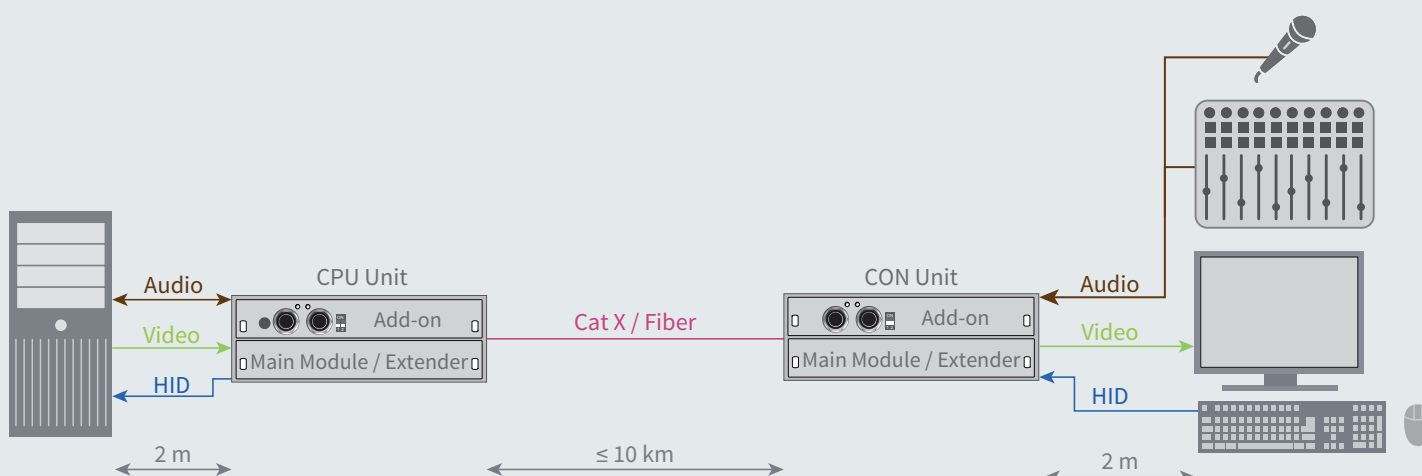
PRODUCT FEATURES

- Enables balanced audio transmission between workstation (CON Unit) and computer (CPU Unit)
- Transmission in the data stream of the main module, no additional port on the matrix required (function is also given over matrix)
- Supports condenser microphones and active loudspeakers
- Sample rate variably adjustable (default: 48.0 kHz)
- Supports audio embedding and de-embedding of HDMI and DisplayPort audio

Add-on module with balanced audio

TECHNICAL DATA	
Part No.	L474-BBX (CPU) R474-BBX (CON)
Signal level - Input	Max. 6,4 dBu balanced (Gain: 0 dB) Max. 0,44 dBu unbalanced (Gain: 0 dB)
Signal level - Output	8,1 dBu (balanced) 2,1 dBu (unbalanced)
Phantom powering	48 VDC
Preamplification	10 – 65 dB
Bit depth	24 bit
Sample rate	32 up to 192 kHz adjustable
Power consumption	CPU: 500 mA CON: 370 mA

FUNCTIONAL DIAGRAM



ORDER NUMBERS

	L474-BBX
	R474-BBX

These models can also be extended by additional half-sided modules, for example USB 2.0 embedded or USB-HID. Combinations available on request.

Add-on module with digital audio



Unidirectional digital audio transmission

Add-on module for Draco vario extenders

No additional link required

Up to three sources (RCA, TOSLINK, Mini-XLR)

Sample rate variable adjustable

Embedding + de-embedding (HDMI+DP audio)

Compatible with balanced audio modules

PRODUCT INFORMATION

Function

The add-on module provides digital audio transmission to KVM extender systems. An integrated sample rate converter allows the output of a predefined sample rate at the CON Unit. The signals are transmitted within the KVM data stream via the main extender module. No additional Cat X or fiber link is required.

Application

The digital audio add-on module is compatible with analog and balanced audio extenders. Full cross-over functionality allows the conversion between analog and digital audio devices at both ends, including the conversion between embedded audio signals (e.g. HDMI or DisplayPort) and analog audio. It allows the quick connection of sound bars, active speakers, audio mixer (e. g. Motu 828 Mk III) or digital to analog

converters (e. g. headphone amplifiers). An optical audio output from the TV set can also be transmitted via the KVM link.

Installation

The module is designed as a half-slot width board to be combined with other add-on modules, e. g. USB 2.0 devices. This provides a significant increase in functionality and flexibility. The Draco vario system allows flexible mounting of modules on all main modules and in all Draco vario chassis.

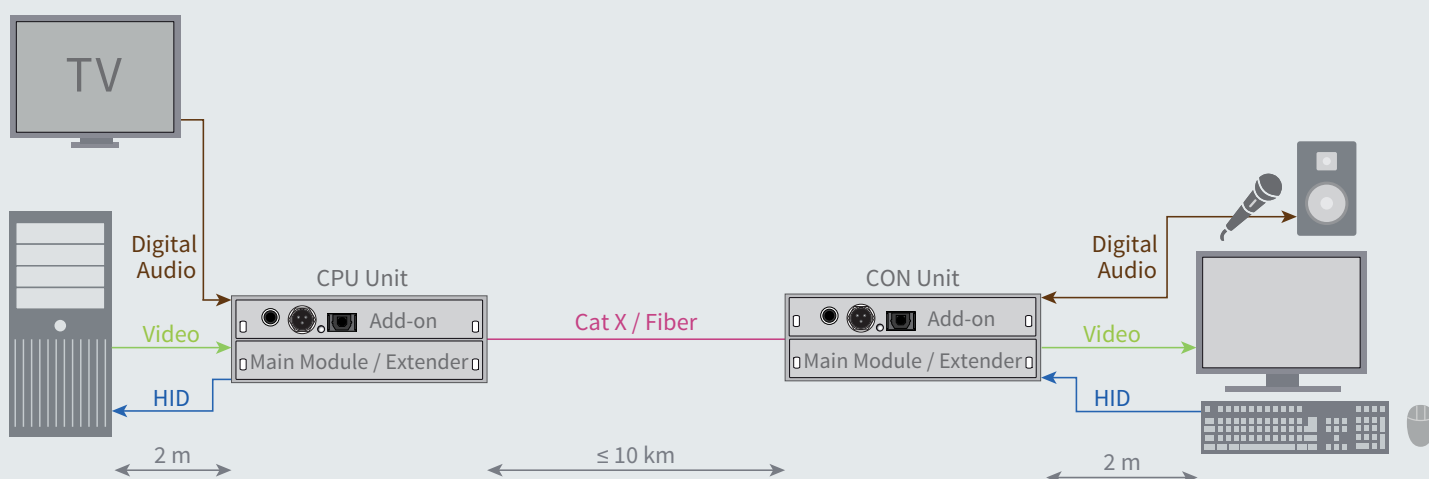
PRODUCT FEATURES

- Enables digital audio transmission between workstation (CON Unit) and computer (CPU unit)
- Transmission in the data stream of the main module, no additional port on the matrix required (function is also given over matrix)
- Sample rate variably adjustable
- Supports audio embedding and de-embedding of HDMI and DisplayPort audio

Add-on module with digital audio

TECHNICAL DATA	
Part No.	L474-BDX (CPU) R474-BDX (CON)
CPU Unit (Inputs)	Mini-XLR (AES/EBU; balanced, lockable) Coaxial (S/PDIF; RCA, Cinch) Optical (S/PDIF; TOSLINK)
CON Unit (Outputs)	Mini-XLR (AES/EBU; balanced, lockable) Coaxial (S/PDIF; RCA, Cinch) Optical (S/PDIF; TOSLINK)
Compatibility	AES/EBU, S/PDIF, EIAJ CP1201, IEC 60958
Standards	Dolby Digital, DTS, PCM
Bit depth	24 bit
Sample rate	32 up to 96 kHz
Power consumption	CPU: 100 mA CON: 100 mA

FUNCTIONAL DIAGRAM

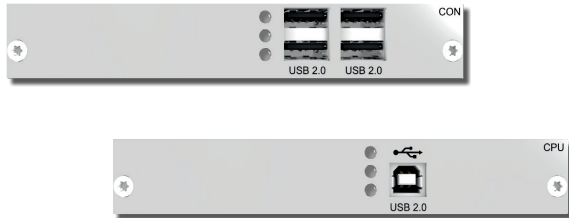


ORDER NUMBERS

	L474-BDX
	R474-BDX

These models can also be extended by additional half-sided modules, for example USB 2.0 embedded, USB-HID or RS232/422. Combinations available on request.

Add-on module with 4x USB 2.0



USB 1.1/2.0 extension

Flex speed (50/100 Mbit/s)

No additional cable required

4 port USB hub

Supports isochronic transmission

PRODUCT INFORMATION

Function

The add-on module for USB 2.0 embedded provides bidirectional USB 2.0 transmission to existing systems. USB signals are transmitted with a speed of up to 50/100 Mbit/s, embedded within the KVM data stream through the main extender module. No additional Cat X or fiber link is required.

Application

The module offers four USB ports on the CON side, each with 500 mA supply for

various devices and applications. Many USB 2.0 devices such as mass storage, graphic tablets, touch screens and fingerprint sensors can be connected near the workstation and integrated into existing systems. Depending on the device, USB data is transferred in isochronous or bulk process.

Installation

The module is designed as a half-slot width card for combination with other add-on modules, e.g. analog audio

with other main extender modules. This provides an increase in functionality and flexibility. The Draco vario system allows flexible mounting of modules on all main modules and in all Draco vario chassis. Via plug and play, USB ports can be used directly.

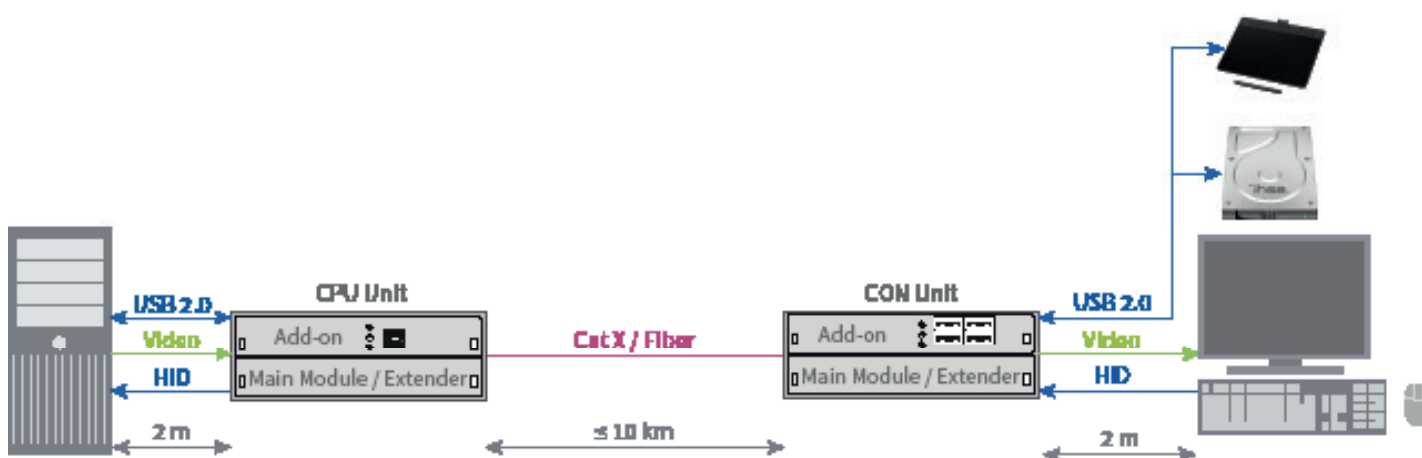
PRODUCT FEATURES

- Enables bidirectional USB data transmission between workstation (CON unit) and computer (CPU unit)
- Transmission in the data stream of the main module, no additional port on the matrix required (function is also given over matrix)
- USB 1.1 and 2.0 support
- Compatible with USB 2.0 devices
- Maximum bandwidth 50/100 Mbit/s (flex speed)
- Module can be operated with all Draco vario and Draco ultra KVM extenders
- Isochronous and bulk data transmission support
- Number of ports or connected devices can be extended via HUB (not included)

Add-on module with 4x USB 2.0

TECHNICAL DATA	
Part No.	L474-BXE2 (CPU) R474-BXE2 (CON)
USB interface	USB 1.1/ 2.0 (50/100 Mbit/s) CPU: USB Type B CON: 4x USB Type A
Maximum distance	Max. 10 km range
Power consumption	CPU: 90 mA CON: 2170 mA (depending on connected devices)

FUNCTIONAL DIAGRAM



ORDER NUMBERS

	L474-BXE2
	R474-BXE2

These models can also be extended by additional half-sided modules, for example balanced / digital audio or RS232/422. Combinations available on request.

Add-on module with 2x USB-HID



Connection for 2 additional USB-HID ports

Add-on module for Draco vario extenders

No additional link required

Extender + matrix OSD operation via module

Supports keyboards with USB hub

PRODUCT INFORMATION

Function

With the add-on module, existing systems can be expanded to enable the signal transmission of two additional USB-HID devices within the KVM data stream via the main extender module (up to two HID devices). No additional Cat X or fiber link is required.

Application

Almost all USB-HID devices such as keyboard, mouse, USB-HID touch screens and additional keypads (X-Keys) are supported. Furthermore, the extender can be completely operated via the module (also OSD).

Installation

The module is designed as a half-slot width board to be combined with other add-on modules, e.g. analog audio and RS232. This provides a significant increase in functionality and flexibility. The Draco vario system allows flexible mounting of modules on all main modules and in all Draco vario chassis.

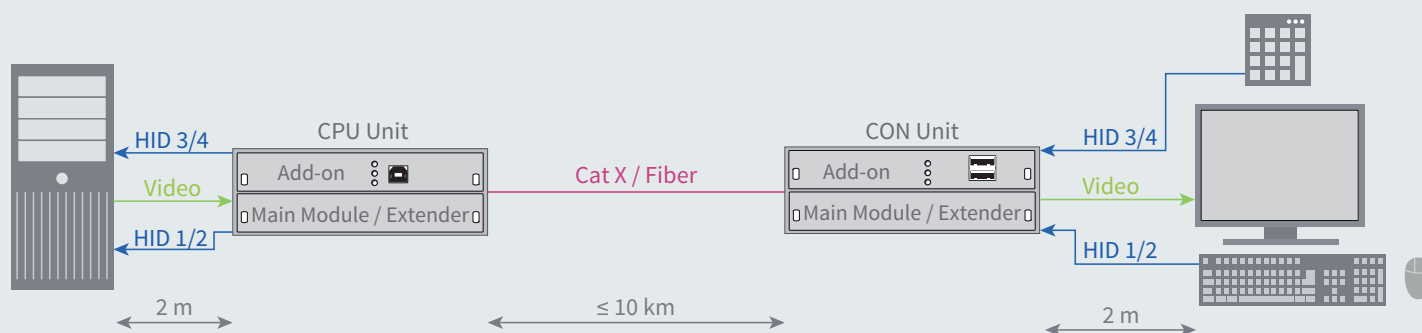
PRODUCT FEATURES

- Enables connection of 2 additional USB-HID devices between workstation (CON unit) and computer (CPU unit)
- Transmission in the data stream of the main module, no additional port on the matrix required (function is also given over matrix)
- Per connection max. 100 mA

Add-on module with 2x USB-HID

TECHNICAL DATA	
Part No.	L474-BXH (CPU) R474-BXH (CON)
Power consumption	CPU: 90 mA CON: 280 mA

FUNCTIONAL DIAGRAM



ORDER NUMBERS

	L474-BXH
	R474-BXH

These models can also be extended by additional half-sided modules, for example balanced / digital audio or RS232/422. Combinations available on request.



USB 2.0/1.1 extension (up to 480 Mbps)

Standalone device

Cat X or fiber

Compatible to Draco tera matrices

Fits into Draco vario chassis

USB 2.0 EXTENSION

General Overview

The Draco vario USB 2.0 extenders have been designed for extending USB 2.0/1.1 USB devices from a remote operator desk to a local computer. For handling this application, the devices are based on a transparent 480 Mbps transmission covering all common USB 2.0 devices. Connection between CPU Units (local source) and CON Units (remote user workstation)

is realized by a single Cat X of fiber (single- or multi-mode), enabling connection at distances up to 140m and 10km.

Wide range of mounting options

The use of the proven Draco vario concept allows the assembly into all types of Draco vario chassis providing a wide range of installation options and customized system configuration capability.

Integration in Draco tera KVM matrix switch installations

The USB 2.0 CON and CPU Units may be combined with Draco tera KVM matrix switches to create USB 2.0 switching systems of almost unlimited size and capability.

PRODUCT FEATURES

- › USB 2.0/1.1 extension
- › Max. bandwidth 480 Mbps (high-speed)
- › Designed for standalone operations
- › Redundant power supply (option)
- › Compatible with Draco vario chassis and 19" rack mounts
- › Integrates with full Draco tera KVM matrix switch range

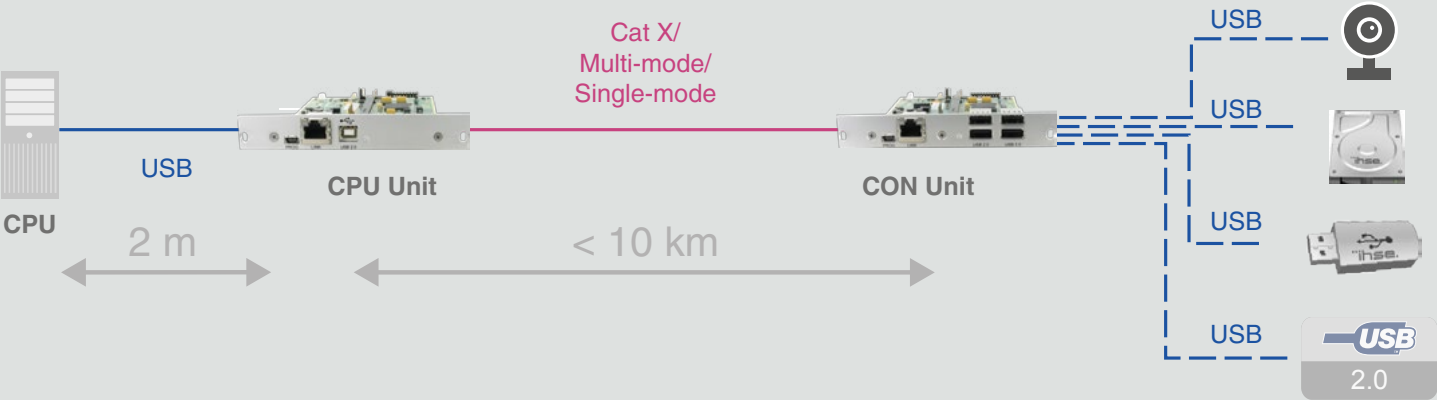
Draco vario Configurator

[- click here -](#)

CPU and CON modules for transmission of USB 2.0/1.1

TECHNICAL DATA	
Part No.	L474-BXUC (CPU) / R474-BXUC (CON) L474-BXUS (CPU) / R474-BXUS (CON)
USB interface	USB 2.0/1.1 (480 Mbps max.)
Maximum Distance	
Cat X	140 m
Multi-mode	1,000 m (OM3)
Single-mode (9µ)	10,000 m (up to 160 km with special SFPs)
Power consumption	L474: 500 mA R474: Max. 2,500 mA (depending on connected devices)
Dimensions	Depending on chassis in use

FUNCTIONAL DIAGRAM



GRAPHICS

L474-BXUC
L474-BXUS

R474-BXUC
R474-BXUS