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Digital KVM/AV -extenders



DVI Equalizer

DSXi DVI-KVM Extender

DVXi/ET DVI-KVM Extender

DVXi/ME DVI-Media Extender

DVI / VGA Konverter

CWDM MUX/DEMUX

Repeater / Cross Repeater

DXXi

DAVX-Digital A/V-Extender

DDXi für CATx/Glasfaser

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DVI Equalizer upto 40m



DVI Equalizer



Funktionsprinzip

Using the equalizer allows to have a distance of up to 40 Metres between graphic card and monitor at max. 1920x1200x60Hz (35m source / equalizer and additional 5m equalizer / monitor). Longer distances at lower resolution and/or refresh rates.

Singlelink Device

- Power through Monitor (p.s.u. optionally)
- 1920x1200@60Hz/24Bit colours

Duallink Device

- Power through international p.s.u. (included)
- 2560x2048@60Hz/24Bit colours

Product Description	Nr./no	Product Description
DVI Singlelink Equalizer up to 1920x1200	K458-1S	DVI Singlelink Equalizer up to 1920x1200
DVI Duallink Equalizer up to 2560x2048	K458-2S	DVI Duallink Equalizer up to 2560x2048
(CPU-) Cables /Accessories		
DVI Singlelink High Quality Cable, length = 5m	458-05	DVI Singlelink High Quality Cable, length = 5m
DVI Singlelink High Quality Cable, length = 10m	458-10	DVI Singlelink High Quality Cable, length = 10m
DVI Singlelink High Quality Cable, length = 15m	458-15	DVI Singlelink High Quality Cable, length = 15m
DVI Singlelink High Quality Cable, length = 20m	458-20	DVI Singlelink High Quality Cable, length = 20m
DVI Singlelink High Quality cable, length 25m	458-25	DVI Singlelink High Quality cable, length 25m
DVI Singlelink High Quality cable, length 35m	458-35	DVI Singlelink High Quality cable, length 35m
DVI Duallink High Quality Cable, length = 5m	458-D1	DVI Duallink High Quality Cable, length = 5m
DVI Duallink High Quality Cable, length = 10m	458-D2	DVI Duallink High Quality Cable, length = 10m
DVI Duallink High Quality Cable, length = 15m	458-D3	DVI Duallink High Quality Cable, length = 15m
DVI Duallink High Quality Cable, length = 20m	458-D4	DVI Duallink High Quality Cable, length = 20m
DVI Duallink High Quality cable, length 25m	458-D5	DVI Duallink High Quality cable, length 25m
DVI Duallink High Quality cable, length 35m	458-D6	DVI Duallink High Quality cable, length 35m

DSXi DVI-KVM-Extender upto 50m, max res. 2560x2048/24Bit



DSXi mit USB, Single-Head

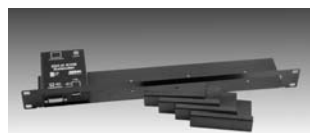


Using the DSXi extender allows distances up to 50m using a **single**, commercially available CATx cable (for Single-Head/Singlelink or using two cables for Dual-Head or Duallink). Allowed resolutions Singlelink: up to 1920x1200. Allowed distances: 1600x1200 and higher up to 30m, all smaller resolutions up to 50m. Resolution Duallink: up to 2560x2048 - distance depending on pixel clock, but at least 30m. All resolutions @60Hz/24Bit colours. Keyboard/Mouse USB-HID.

Because of the new technology DVI can be transmitted with full frame rate and full colour depth.

- local unit is powered through USB from CPU
- remote unit gets power through international p.s.u. (included)
- 1x DVI-D 1920x1200@60Hz/24Bit colours
- 2x DVI-D 1920x1200@60Hz/24Bit colours
- 1x DVI-D 2560x2048@60Hz/24Bit colours
- USB-Keybaord/Mouse (depending on device)
- Maximum distance Singlelink: 1600x1200 and higher: 30m, lower resolutions up to 50m; Duallink: distance depends on pixel clock, but at least 30m
- All devices **without** Local Access
- Compact size
- Up to 5 devices in a 19"/1U rack space

Product Description	Nr./no	Product Description
DSXi Single-Head/Singlelink DVI-D + USB-HID (<1920x1200)	K473-SSH	DSXi Single-Head/Singlelink DVI-D + USB-HID (<1920x1200)
DSXi Dual-Head/Singlelink DVI-D + USB-HID (<1920x1200)	K473-DSH	DSXi Dual-Head/Singlelink DVI-D + USB-HID (<1920x1200)
DSXi Single-Head/Duallink DVI-D + USB-HID (<2560x2048)	K473-SDH	DSXi Single-Head/Duallink DVI-D + USB-HID (<2560x2048)
19"-Rack Mount Kits (RMK) / Mounting Plates		
19"-RMK for 1x...5x DSXi Single-Head	473-5G	19"-RMK for 1x...5x DSXi Single-Head
Mounting Plate DSXi to mount by screws	473-1K	Mounting Plate DSXi to mount by screws
Mounting Plate DSXi to mount by snap-on	473-2K	Mounting Plate DSXi to mount by snap-on
Cables / Accessories		
CAT5, S-UTP-Simplex 4x2xAWG24	402-0J	CAT5, S-UTP-Simplex 4x2xAWG24
plug assembly incl. 2x CAT5-plugs	402-0A	plug assembly incl. 2x CAT5-plugs
CAT5, S-UTP-Duplex 2x(4x2xAWG24)	402-1J	CAT5, S-UTP-Duplex 2x(4x2xAWG24)
plug assembly incl. 4x CAT5-plugs	402-1A	plug assembly incl. 4x CAT5-plugs



19"-Einbaukit für 1x...5x DSXi Single-Head

DVXi/ET DVI- KVM- Extender 1920x1200/24Bit



DVXi/ET mit PS2, Dual-Head



DVXi/ET mit PS2 und seriell/Audio, Single-Head



DVXi/ET mit USB, Single-Head



19"-Einbaueinheit für 1x...4x DVXi Single-Head



19"-Netzteil zur Versorgung von bis zu 3 DVXi Geräten



Befestigungsplatte – hier mit zusätzlichem Kunststoffprofil zum Aufschnappen

DVXi/ET - Enhanced Technology:

Resolution up to 1920x1200@60Hz and selectable settings: fixed 24Bit colours or automatical switching between 16 Bit = 64K and 24Bit = 16Mio. colours.

Using the extenders allows distances up to 140m @ CATx, 400m @ Multimode or 10km @ Singlemode using screen resolutions of up to 1920x1200@60Hz/16Bit or 24Bit colours (auto sensing). Keyboard/Mouse either PS2 or USB

- Power through international p.s.u. (included)
- DVI-D 1920x1200@60Hz/up to 24Bit colours
- PS2-Keyboard/Mouse or USB-Keyboard/Mouse (depending on device)
- 140m @ CATx, 400m @ Multimode 50µ, 200m @ Multimode 62,5µ, 10.000m @ Singlemode 9µ
- All devices with local access at local unit – USB devices video only
- Single-Head (1x Graphic) or Dual-Head (2x Graphic) devices available
- Audio/serial option available

Product Description	Nr./no	Product Description
Devices without audio/serial		Devices without audio/serial
DVXi/ET-PC PS2-CATx, Single-Head	K461-1W	DVXi/ET-PC PS2-CATx, Single-Head
DVXi/ET-PC2 PS2-CATx, Dual-Head	K461-2W	DVXi/ET-PC2 PS2-CATx, Dual-Head
DVXi/ET-UC USB-CATx, Single-Head	K461-1U	DVXi/ET-UC USB-CATx, Single-Head
DVXi/ET-UC2 USB-CATx, Dual-Head	K461-2U	DVXi/ET-UC2 USB-CATx, Dual-Head
DVXi/ET-PM PS2-Multimode, Single-Head	K462-1W	DVXi/ET-PM PS2-Multimode, Single-Head
DVXi/ET-PM2 PS2-Multimode, Dual-Head	K462-2W	DVXi/ET-PM2 PS2-Multimode, Dual-Head
DVXi/ET-UM USB- Multimode, Single-Head	K462-1U	DVXi/ET-UM USB- Multimode, Single-Head
DVXi/ET-UM2 USB- Multimode, Dual-Head	K462-2U	DVXi/ET-UM2 USB- Multimode, Dual-Head
DVXi/ET-PS PS2-Singlemode, Single-Head	K463-1W	DVXi/ET-PS PS2-Singlemode, Single-Head
DVXi/ET-PS2 PS2-Singlemode, Dual-Head	K463-2W	DVXi/ET-PS2 PS2-Singlemode, Dual-Head
DVXi/ET-US USB-Singlemode, Single-Head	K463-1U	DVXi/ET-US USB-Singlemode, Single-Head
DVXi/ET-US2 USB-Singlemode, Dual-Head	K463-2U	DVXi/ET-US2 USB-Singlemode, Dual-Head
Devices with audio/serial		Devices with audio/serial
DVXi/ET-PC PS2-CATx, Single-Head + audio/serial	K461-SA	DVXi/ET-PC PS2-CATx, Single-Head + audio/serial
DVXi/ET-PC2 PS2-CATx, Dual-Head + audio/serial	K461-DA	DVXi/ET-PC2 PS2-CATx, Dual-Head + audio/serial
DVXi/ET-UC USB-CATx, Single-Head + audio/serial	K461-SU	DVXi/ET-UC USB-CATx, Single-Head + audio/serial
DVXi/ET-UC2 USB-CATx, Dual-Head + audio/serial	K461-DU	DVXi/ET-UC2 USB-CATx, Dual-Head + audio/serial
DVXi/ET-PM PS2-Multimode, Single-Head + audio/serial	K462-SA	DVXi/ET-PM PS2-Multimode, Single-Head + audio/serial
DVXi/ET-PM2 PS2-Multimode, Dual-Head + audio/serial	K462-DA	DVXi/ET-PM2 PS2-Multimode, Dual-Head + audio/serial
DVXi/ET-UM USB-Multimode, Single-Head + audio/serial	K462-SU	DVXi/ET-UM USB-Multimode, Single-Head + audio/serial
DVXi/ET-UM2 USB-Multimode, Dual-Head + audio/serial	K462-DU	DVXi/ET-UM2 USB-Multimode, Dual-Head + audio/serial
DVXi/ET-PS PS2-Singlemode, Single-Head + audio/serial	K463-SA	DVXi/ET-PS PS2-Singlemode, Single-Head + audio/serial
DVXi/ET-PS2 PS2-Singlemode, Dual-Head + audio/serial	K463-DA	DVXi/ET-PS2 PS2-Singlemode, Dual-Head + audio/serial
DVXi/ET-US USB-Singlemode, Single-Head + audio/serial	K463-SU	DVXi/ET-US USB-Singlemode, Single-Head + audio/serial
DVXi/ET-US2 USB-Singlemode, Dual-Head + audio/serial	K463-DU	DVXi/ET-US2 USB-Singlemode, Dual-Head + audio/serial
19"-Rack Mount Kits (RMK) / Mounting Plates		19"-Rack Mount Kits (RMK) / Mounting Plates
19"-RMK for 1x...4x DVXi Single-Head	455-4G	19"-RMK for 1x...4x DVXi Single-Head
19"-RMK for 1x...4x DVXi Dual-Head	455-8G	19"-RMK for 1x...4x DVXi Dual-Head
PSU, 19"-rack-mountable, to power up to 3 DVXi	455-PS	PSU, 19"-rack-mountable, to power up to 3 DVXi
Mounting Plate DVXi to mount by screws	455-1K	Mounting Plate DVXi to mount by screws
Mounting Plate DVXi to mount by snap-on	455-2K	Mounting Plate DVXi to mount by snap-on
Cables / Accessories		Cables / Accessories
CAT5, S-UTP-Simplex 4x2xAWG24	402-0J	CAT5, S-UTP-Simplex 4x2xAWG24
plug assembly incl. 2x CATx-plugs	402-0A	plug assembly incl. 2x CATx-plugs
Multimode Break-Out- cable 2G50	433-2M	Multimode Break-Out- cable 2G50
plug assembly incl. 2x LC-plugs	252-2L	plug assembly incl. 2x LC-plugs
Singlemode Break-Out- cable 2E9	433-2S	Singlemode Break-Out- cable 2E9
plug assembly incl. 2x LC-plugs	252-2L	plug assembly incl. 2x LC-plugs
International p.s.u. 100...240VAC/5VDC	260-5E	International p.s.u. 100...240VAC/5VDC

DVXi/ME DVI-Media-Extender 1920x1200



DVXi/ME DVI-D + serial/Audio



19"-Einbaunit für 1x...4x DVXi Single-Head

DVXi/ME - Media Extender:

Resolution up to 1920x1200@60Hz and selectable settings: fixed 24Bit colours or automatically switching between 16 Bit = 64K and 24Bit = 16Mio. colours.

The extenders allow distances of up to 140m @ CATx, 400m @ Multimode or 10km @ Singlemode. Serial/Audio option available.

- Power through international p.s.u. (included)
- DVI-D 1920x1200@60Hz/24Bit colours
- 140m @ CATx, 400m @ Multimode 50µ, 200m @ Multimode 62,5µ, 10.000m @ Singlemode 9µ
- All devices with local (DVI-) access at local unit
- Audio/serial option available

Product Description	Nr./no	Product Description
DVXi/ME-EC CATx, , Video only	K467-0C	DVXi/ME-EC CATx, , Video only
DVXi/ME-ECA CATx, , Video + audio	K467-AC	DVXi/ME-ECA CATx, , Video + audio
DVXi/ME-EM Multimode, Video only	K467-0M	DVXi/ME-EM Multimode, Video only
DVXi/ME-EMA Multimode, Video + audio	K467-AM	DVXi/ME-EMA Multimode, Video + audio
DVXi/ME-ES Singlemode, Video only	K467-0S	DVXi/ME-ES Singlemode, Video only
DVXi/ME-ESA Singlemode, Video + audio	K467-AS	DVXi/ME-ESA Singlemode, Video + audio
19"-RMK / Mounting Plates		19"-RMK / Mounting Plates
See page 9		See page 9

Useful accessories for DVXi devices

**DVI to VGA Converter**

To connect a traditional VGA Monitor to a DVI(-D) graphic card, to the remote unit of a DVI(-D) KVM- Extender or to connect the local output of a DVI KVM Extender to a traditional VGA KVM- Switch.

- Transparent Conversion – NO conversion of resolution (rescaling) nor of SYNC frequencies – The monitor must be capable to display the resolution/frequencies of the DVI(-D) source.

Product Description	Nr./no	Product Description
DVI(-D) to VGA Konverter	K469-DV	DVI(-D) to VGA converter

**CWDM MUX/DEMUX**

Using special Transceiver modules (GBICs), up to 4 independent data links can be handled and transmitted over a single pair of Singlemode fibres. The total allowed distance depends on the type of used GBICs. Please note: These device must always be utilised in pairs. Each wavelength may only occur once in each CWDM data link.

Produktbeschreibung	Nr./no	Product Description
CWDM MUX/DEMUX Box to transmit up to 4 independent data streams over a single pair of fibres	K470-CW	CWDM MUX/DEMUX Box to transmit up to 4 independent data streams over a single pair of fibres
Pair of Transceivers (2 pieces) wavelength 1531 nm	K470-31	Pair of Transceivers (2 pieces) wavelength 1531 nm
Pair of Transceivers (2 pieces) wavelength 1551 nm	K470-51	Pair of Transceivers (2 pieces) wavelength 1551 nm
Pair of Transceivers (2 pieces) wavelength 1551 nm	K470-71	Pair of Transceivers (2 pieces) wavelength 1551 nm
Pair of Transceivers (2 pieces) wavelength 1571 nm	K470-91	Pair of Transceivers (2 pieces) wavelength 1571 nm

**Repeater / Cross Repeater**

The Repeater devices (CATx, Multimode Singlemode) allow, when installed in the middle of a link, to double the total allowed distance. If used as Cross repeater, it's also possible to convert from CATx to fibre or from Multimode to Singlemode. Please note: CATx/fibre cross converters can only be utilised in pairs



Product Description	Produktbeschreibung
CATx Repeater	CATx Repeater
Multimode Repeater	Multimode Repeater
Singlemode Repeater	Singlemode Repeater
CATx/Multimode Repeater	CATx/Multimode Repeater
CATx/Singlemode Repeater	CATx/Singlemode Repeater
Multimode/Singlemode Repeater	Multimode/Singlemode Repeater

DXXi DVI-KVM-Extender 2560x2048/24Bit

DXXi, Singlelink, Single-Head mit USB-HID



DXXi, Singlelink, Dual-Head mit USB-transparent



DXXi, Dualink, Single-Head mit USB-transparent



DXXi, Singlelink, Single-Head mit USB-HID; mit KVM-Switch in Local Unit



19"-Einbaukit für 1x...3x DXXi

Using the DXXi Extender allows distances up to 400m using a **single** Multimode fibre to transmit screen resolutions of up to 1920x1200@60Hz/24Bit colours - Because of the new technology DVI can be transmitted with full frame rate and full colour depth. The transparent DDC2B transmission makes the device fully HDCP compliant. Keyboard/Mouse USB-HID. Optionally (using an additional fibre) all devices are also available with transparent USB 2.0 communication.

Other models provide:

Dual-Head/Singlelink with HID using 2 Fibres, Single-Head/Singlelink with USB 2.0 transparent using 2 Fibres, Single-Head/Dualink (2560x2048) with HID using 2 Fibres,

Dual-Head/Singlelink with USB 2.0 transparent using 3 Fibres,
Single-Head/Dualink with USB 2.0 transparent using 3 Fibres.

A special version of the DXXi (supporting Single-Head/Singlelink using one fibre) provides a 2port KVM-Switch built in the local unit. This allows controlling two CPUs with DVI graphic card from a single, remotely located console. This comfortable solution with integrated switch saves space and cabling.

- Local-/remote- unit gets power through international p.s.u. (included in the list of parts delivered)
- DVI-D 1920x1200@60Hz/24Bit colours (transparent DDC) for all Singlelink devices
- DVI-D 2560x2048@60Hz/24Bit colours (transparent DDC) for all Dualink devices
- USB-Keyboard/Mouse (HID) support (depending on device)
- Transparent USB 2.0 support (depending on device)
- Maximum distance 400m on ALL distances
- All devices **without** local access
- Option: Single-Head/Singlelink with 2port KVM-Switch built in the local unit
- Compact size
- Up to 3 devices in a 19"/1U rack space
- Transparent DDC2B allows full HDCP compatibility

Product Description	Nr./no	Product Description
Singlelink up to 1920x1200		Singlelink up to 1920x1200
DXXi DVI-D + USB-HID, Single-Head – 1 fibre	K472-SSH	DXXi DVI-D + USB-HID, Single-Head – 1 fibre
DXXi DVI-D + USB-HID, Dual-Head – 2 fibres	K472-DSH	DXXi DVI-D + USB-HID, Dual-Head – 2 fibres
DXXi DVI-D + USB-2.0, Single-Head – 2 fibres	K472-SST	DXXi DVI-D + USB-2.0, Single-Head – 2 fibres
DXXi DVI-D + USB-2.0, Dual-Head – 3 fibres	K472-DST	DXXi DVI-D + USB-2.0, Dual-Head – 3 fibres
Dualink up to 2560x2048		Dualink up to 2560x2048
DXXi DVI-D + USB-HID, Single-Head – 2 fibres	K472-SDH	DXXi DVI-D + USB-HID, Single-Head – 2 fibres
DXXi DVI-D + USB-2.0, Single-Head – 3 fibres	K472-SDT	DXXi DVI-D + USB-2.0, Single-Head – 3 fibres
Singlelink up to 1920x1200 with KVM Switch		Singlelink up to 1920x1200 with KVM Switch
DXXi DVI-D; USB-HID, Single-Head– 1 fibre, w/ KVM- Switch	K472-SWH	DXXi DVI-D; USB-HID, Single-Head– 1 fibre, w/ KVM-Switch
19"-Rack Mount Kits (RMK) / Mounting Plates		19"-Rack Mount Kits (RMK) / Mounting Plates
19"-RMK for 1x...4x DVXi Single-Head	437-1G	19"-RMK for 1x...4x DVXi Single-Head
Mounting Brackets DXXi to mount by screws	285-2K	Mounting Brackets DXXi to mount by screws
Mounting Brackets DXXi to mount by snap-on	286-2K	Mounting Brackets DXXi to mount by snap-on
p.s.u. (for spare)		p.s.u. (for spare)
International p.s.u. 100...240VAC/5VDC	260-5E	International p.s.u. 100...240VAC/5VDC
CPU cable of extended length		CPU cable of extended length
DVI-D CPU cable, length 3m	436-D3	DVI-D CPU cable, length 3m
USB A-B CPU cable, length 3m	247-U2	USB A-B CPU cable, length 3m
Cables / Accessories		Cables / Accessories
Multimode Break-Out- cable 2G50/125	433-2M	Multimode Break-Out- cable 2G50/125
plug assembly incl. 2x SC-plugs	252-1C	plug assembly incl. 2x SC-plugs
plug assembly incl. 4x SC-plugs	2x 252-1C	plug assembly incl. 4x SC-plugs
Multimode Break-Out- cable 4G50/125	433-4M	Multimode Break-Out- cable 4G50/125
plug assembly incl. 6x SC-plugs	3x 252-1C	plug assembly incl. 6x SC-plugs

DAVX Digital Audio/Video -extender for FBAS/SVHS (Y/C) and digital or analog Audiosignals

DAVX unidirektional, digital Audio Fibre



DAVX bidirektional, digital Audio Fibre

Professional transmission of Audio/Video Signals (e.g. Camera, DVD-Player, TV ...) requires efficient solutions. The new family of DAVX (Digital Audio/Video EXtender) meet highest demands for Video and Audio Quality.

Technical Data - all Devices:

- Connector for Composite or Y/C Video and TOS-Link for digital Audio + 9pin D-Sub for fully transparent V24/RS232-Interface
- 100m @ CATx, 400m @ Multimode 50µ, 200m @ Multimode 62,5µ, 10.000m @ Singlemode 9µ
- Delivery: local unit, remote unit, 2x international p.s.u., junction cables

Product Description	Nr./no	Product Description
DAVX unidirectional, digital Audio for CATx	K452-1S	DAVX unidirectional, digital Audio for CATx
DAVX unidirectional, analogue Audio for CATx	K452-2S	DAVX unidirectional, analogue Audio for CATx
DAVX unidirectional, digital Audio for Multimode	K450-1S	DAVX unidirectional, digital Audio for Multimode
DAVX bidirectional, digital Audio for Multimode	K450-1D	DAVX bidirectional, digital Audio for Multimode
DAVX unidirectional, analogue Audio for Multimode	K450-2S	DAVX unidirectional, analogue Audio for Multimode
DAVX bidirectional, analogue Audio for Multimode	K450-2D	DAVX bidirectional, analogue Audio for Multimode
DAVX unidirectional, digital Audio for Singlemode	K451-1S	DAVX unidirectional, digital Audio for Singlemode
DAVX bidirectional, digital Audio for Singlemode	K451-1D	DAVX bidirectional, digital Audio for Singlemode
DAVX unidirectional, analogue Audio for Singlemode	K451-2S	DAVX unidirectional, analogue Audio for Singlemode
DAVX bidirectional, analogue Audio for Singlemode	K451-2D	DAVX bidirectional, analogue Audio for Singlemode

DDXi KVM-Extender for VGA and DVI Signals

DDXi PS2 für Glasfaser



DDXi USB für Glasfaser



DDXi Video only + Audio/seriell upgrade Kit



Zwei DDXi eingebaut in 19"-Einbaueinheit für 1x...3x DDXi

Technical Data - all Devices:

- Res. 1600x1200@60Hz/75Hz, 18/24 Bit colours (15/21 Bit with CATx)
- Resolution 1920x1200@60Hz, 18 Bit colours - **Option**, fibre only
- 100m @ CATx, 400m @ Multimode 50µ, 200m @ Multimode 62,5µ, 10.000m @ Singlemode 9µ
- Delivery: local unit, remote unit, 2x intern. p.s.u. 90...230VAC/6VDC, ZIP type CPU Cable + adaptors
- All devices with local access at local unit. USB: local monitor port
- USB devices: Compatible to USB 1.1, 4Port- HUB in remote unit

Product Description	Local/19"	Remote	Kit-Desk.	Product Description
DDXi PS2 for CATx	439-1D	439-1E	K439-1W	DDXi PS2 for CATx
DDXi DVI/VGA only for CATx	439-0D	439-0E	K439-0W	DDXi DVI/VGA only for CATx
DDXi PS2 for Multimode	437-1D	437-1E	K437-1W	DDXi PS2 for Multimode
DDXi USB for Multimode	442-2L	442-2E	K442-2U	DDXi USB for Multimode
DDXi DVI/VGA only for Multimode	437-0D	437-0E	K437-0W	DDXi DVI/VGA only for Multimode
DDXi PS2 for Singlemode	438-1D	438-1E	K438-1W	DDXi PS2 for Singlemode
DDXi USB for Singlemode	443-2L	443-2E	K443-2U	DDXi USB for Singlemode
DDXi DVI/VGA only for Singlemode	438-0D	438-0E	K438-0W	DDXi DVI/VGA only for Singlemode
19"-Rack Mount Kits (RMK) / Brackets				19"-Rack Mount Kits (RMK) / Brackets
19"-RMK for 1x...3x DDXi			437-1G	19"-RMK for 1x...3x DDXi
19"/1U rack housing 1-3 DDXi, 90...240VAC			433-1U	19"/1U rack housing 1-3 DDXi, 90...240VAC
19"/2U rack housing 1-6 DDXi, 90...240VAC			433-2U	19"/2U rack housing 1-6 DDXi, 90...240VAC
Brackets DDXi to mount by screws			285-2K	Brackets DDXi to mount by screws
Cables / Accessories				Cables / Accessories
2,5 GBit Upgrade (Multimode - LC)			437-25	2,5 GBit Upgrade (Multimode - LC)
AUDIO /Serial Upgrade kit			421-AU	AUDIO /Serial Upgrade kit
p.s.u. for desktop devices				p.s.u. for desktop devices
international p.s.u. 90...230VAC/6VDC			260-4E	international p.s.u. 90...230VAC/6VDC
Junction Cables				Junction Cables
CAT5, S-UTP-Simplex 4x2xAWG24			402-0J	CAT5, S-UTP-Simplex 4x2xAWG24
plug assembly incl. 2x CAT5-plugs			402-0A	plug assembly incl. 2x CAT5-plugs
Multimode Break- Out- cable 2G50			433-2M	Multimode Break- Out- cable 2G50
plug assembly incl. 2x SC-plugs			252-2C	plug assembly incl. 2x SC-plugs
Singlemode Break- Out- cable 2E9			433-2S	Singlemode Break- Out- cable 2E9



2

Analog extenders



VTO2/VRO2 und VGO+

ICRON WiRanger Wireless USB 2.0

ICRON Rover 200 USB 1.1, 40m

ICRON Ranger 2101/2104

USB 2.0/ CATx bis 100m

ICRON Ranger 442i

USB 2.0/ Multimode bis 500m

ICRON Ranger 444i

USB 2.0/ Singlemode bis 10km

All contents are subject to be changed without prior notice.

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KVM-Extender (fiber) up to 1.000m



VTO2/VRO2 - V 6.00 - Kit für PS2 + audio/serial (Local und Remote Unit)



VTO2/VRO2 - V 6.00 - Kit für PS2 (Local und Remote Unit)



VGO+ - V 6.00 - Kit für VGA-only (Local und Remote Unit)



Zwei VTO2/VRO2 eingebaut in 19"-Einbaueinheit für 1x...3x VTO2 oder VGO+



VTO2/VRO2, PS2 (Remote Unit) eingebaut in 19"-Einbaueinheit

The VTO2/VRO2 and VGO+ devices transmit the VGA signals analogue. This requires for each colour of the VGA signal a single fibre. In addition there are two fibres required to transmit the digital signals (Keyboard/Mouse (serial/audio)).

Technical Data PS2 devices:

- With local access at local unit, for a secondary, local console at local unit
- Device available with serial/audio upgrade, which can also be used for AT-CPU's
- AT-PC using Adaptors

Technical Data VGA only devices:

- With local VGA-Access at local unit, for a secondary, local monitor

Technical Data (all devices)

- Resolution 1280x1024@75Hz
- Maximum distance using Multimode Fibres: 62,5µ up to 1.000m, 50µ up to 1.000m
- Delivery: local unit, remote unit, 2x universal switch mode p.s.u. 90...230VAC/6VDC, ZIP type CPU Cable
- Recommended Cable: VGO+: I-V(ZN)HH 4G50
- Recommended Cable: VTO/VRO + VTO2/VRO2: I-V(ZN)HH 8G50
- Compared to digitally transmitting systems, this analogue transmitting system is limited by the total optical budget of approx. -5dBm. This allows a total distance of up to 1000m with not more than two patches. Additional patches will decrease (sometimes substantially) the total allowed cable length.

Product Description	Nr./no	Product Description
Device Kits - Desktop Version		Device Kits - Desktop Version
VTO2/VRO2 - V 6.00 - PS2	K235-9W	VTO2/VRO2 - V 6.00 - PS2
VTO2/VRO2 - V 6.00 - PS2 + serial/audio	K234-9W	VTO2/VRO2 - V 6.00 - PS2 + serial/audio
VGO+ - V 6.00 - VGA only	K236-9W	VGO+ - V 6.00 - VGA only
19"-Rack Mount Kits (RMK) / Mounting Brackets		19"-Rack Mount Kits (RMK) / Mounting Brackets
19"-RMK for 1x...3x VTO2 or VGO+	437-1G	19"-RMK for 1x...3x VTO2 or VGO+
Mounting Brackets VTO2 or VGO+ to mount by screws	285-2K	Mounting Brackets VTO2 or VGO+ to mount by screws
Mounting Brackets VTO2 or VGO+ to mount by snap-on	286-2K	Mounting Brackets VTO2 or VGO+ to mount by snap-on
CPU Cables (for spare)		CPU Cables (for spare)
ZIP Type Cable, 1,8m (VGA, PS2, PS2)	247-41	ZIP Type Cable, 1,8m (VGA, PS2, PS2)
ZIP Type Cable, 3,0m (VGA, PS2, PS2)	247-42	ZIP Type Cable, 3,0m (VGA, PS2, PS2)
p.s.u. for desktop devices (for spare)		p.s.u. for desktop devices (for spare)
international p.s.u. 90...230VAC/6VDC (HIROSE)	260-4U	international p.s.u. 90...230VAC/6VDC (HIROSE)
Junction Cables		Junction Cables
Multimode Break-Out-Cable 4G50	433-4M	Multimode Break-Out-Cable 4G50
plug assembly incl. 4x ST-plugs	252-4B	plug assembly incl. 4x ST-plugs
Multimode Break-Out-Cable 8G50	253-8J	Multimode Break-Out-Cable 8G50
plug assembly incl. 6x ST-plugs	252-6B	plug assembly incl. 6x ST-plugs

ICRON WiRanger – Wireless USB-Extender bis up to 30m



WiRanger – USB 2.0/1.1 drahtlos über Funk (Wireless LAN 802.11g)

To remotely locate your USB 2.0/1.1 Peripherals via Wireless LAN from your CPU (up to 30m - restricted by radio and operating environment).

- Available: 4port device
- Supports Low-Speed, High Speed und Full Speed
- Maximum data rate: 54MBit/sec actual data throughput will be restricted by radio and operating environment. Some devices may not function properly due to this restriction
- Up to 14 devices attachable (including HUBs)
- Data Encryption: 64 Bit WEP
- International p.s.u. 90...240VAC (in delivery)

Product Description	Nr./no	Product Description
WiRanger Wireless USB 2.0/1.1 up to 30m	K417-1W	WiRanger Wireless USB 2.0/1.1 up to 30m

ICRON ROVER 200 – USB 1.1-Extender up to 40m (fibre)



icron USB Rover 200

The USB Rover 200 extends the range of USB 1.1 up to 40m/ 131ft over fibre optic cable. Fibre-optic transmission provides exceptional reliability and immunity to interference including complete electrical isolation between computer and device.

The local and remote units are non-detachable connected to the fibre interconnection cable. Because of this, it might be difficult to install in narrow wall openings.

- Available: 1port device
- Available lengths: 10m, 20m, 30m and 40m
- Fibre optical transmission: electrically isolated
- Local unit powered from CPU, remote unit powered through p.s.u. (In delivery)
- Fibre cable in delivery (hard wired)

Product Description	Nr./no	Product Description
icron USB Rover 200-10 cable length 10m	K417-01	icron USB Rover 200-10 cable length 10m
icron USB Rover 200-10 cable length 20m	K417-02	icron USB Rover 200-10 cable length 20m
icron USB Rover 200-10 cable length 30m	K417-03	icron USB Rover 200-10 cable length 30m
icron USB Rover 200-10 cable length 40m	K417-04	icron USB Rover 200-10 cable length 40m

ICRON RANGER 2101i und 2104i – USB 2.0/1.1- Extender upto 100m (Cat5)



icron USB Ranger 2101i



icron USB Ranger 2104i

The new USB Ranger 2101i and 2104i raise the total distance, where USB 2.0 signals may be transmitted over CATx to 100m. Simultaneously, the price has been lowered significantly, compared to previously delivered devices. USB 2.0 devices may use the full 480MBit/sec transmission speed. Compared to the Ranger 140i/440i devices, they will also work on USB 1.1 Hosts.

- Distance up to 100m, using regular CATx cables
- Available: 1port (Ranger 2101i) or 4port device (Ranger 2104i)
- Supports 1x/4x high power ports at remote end
- Local unit powered through CPU, remote unit through universal switch mode p.s.u. 90...240VAC (in delivery)
- Junction cable: Cat5, Type 402-0J

Product Description	Nr./no	Product Description
icron USB Ranger 2101i, incl. USB-Cable 1,8m, CATx	K417-1D	icron USB Ranger 2101i, incl. USB-Cable 1,8m, CATx
icron USB Ranger 2104i, incl. USB-Cable 1,8m, CATx	K417-4D	icron USB Ranger 2104i, incl. USB-Cable 1,8m, CATx
Junction Cables		Junction Cables
Cat5, S-UTP-Simplex 4x2xAWG24	402-0J	Cat5, S-UTP-Simplex 4x2xAWG24
Konfektionierung incl. 2x Cat5-Stecker	402-0A	plug assembly incl. 2x Cat5-plugs

ICRON RANGER 442i/444i - USB 2.0/1.1 - Extender upto 500m/10km (Fiber)



icron USB Ranger 442i



icron USB Ranger 444i

The USB 2.0 Ranger 442i / 444i extenders allow to remotely locate USB 2.0 peripheral devices at speeds up to 480 Mb/s over a distance of 500m (Multimode) or 10km/6¼mi (Singlemode).

Please note: These devices will NOT work on CPUs with USB 1.1 host controllers.

- Available: 4port device
- Power local/remote unit: p.s.u. (In delivery)
- Distance up to 500m using Multimode cables
- Distance up to 10km using Singlemode cables
- Supports Low-Speed, High Speed and Full Speed

Product Description	Nr./no	Product Description
icron USB Ranger 442i, incl. USB-Cable 1,8m	K417-4M	icron USB Ranger 442i, incl. USB-Cable 1,8m
icron USB Ranger 444i, incl. USB-Cable 1,8m	K417-4S	icron USB Ranger 444i, incl. USB-Cable 1,8m
Junction Cables		Junction Cables
Multimode Break-Out-Cable 2G50/125	433-2M	Multimode Break-Out-Cable 2G50/125
plug assembly incl. 2x MT-RJ-plugs	252-2L	plug assembly incl. 2x MT-RJ-plugs
Singlemode Break-Out-Cable 2E9/125	433-2S	Singlemode Break-Out-Cable 2E9/125
plug assembly incl. 2x MT-RJ-plugs	252-2L	plug assembly incl. 2x MT-RJ-plugs