

Draco Compact Extender



- Resolutions up to 1920X1200
- Available with Digital Audio
- Easy DDC transfer
- All connections on one side
- Compact design

Product Information

The Draco Compact Extender family supports the transmission of DVI signals, at resolutions up to 1920x1200. In addition, a wide range of options are available: USB-HID, USB 2.0 analog or digital audio and serial data signals

can be extended up to 10 km. These units are designed to perform with excellent image quality and smooth HD video playback. With the IHSE high quality multi-stage compression algorithm, it is possible to extend both single

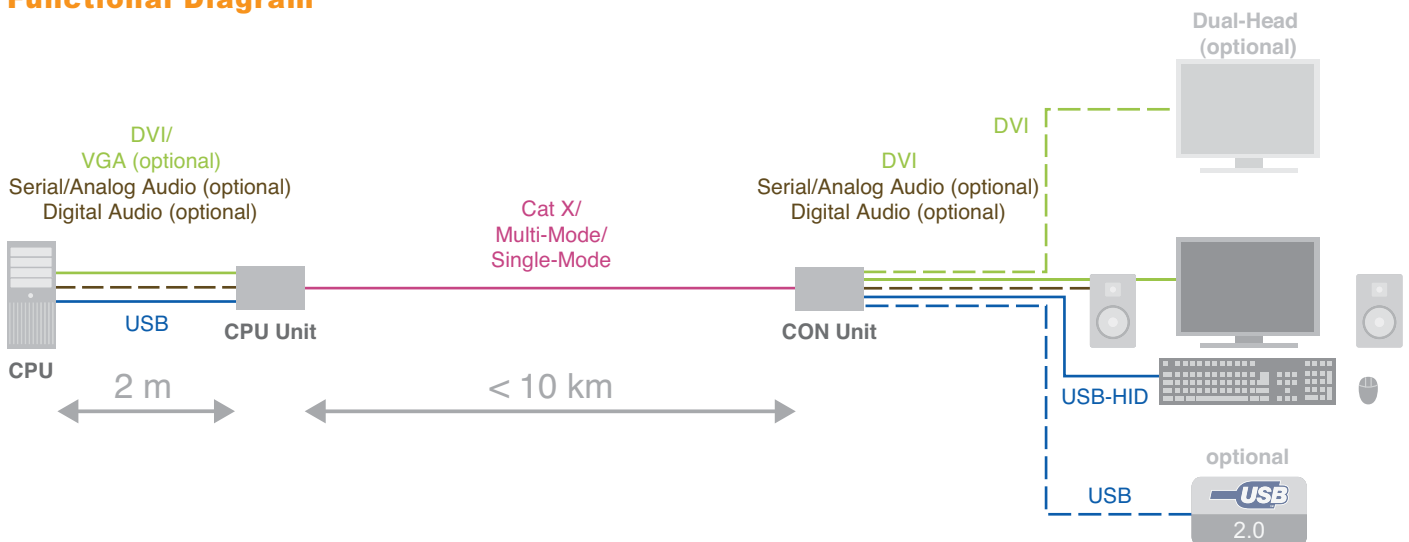
head and dual head video signals up to 140 m over Cat X, 400 m over multi-mode fiber, or up to 10 km over single-mode fiber cable.

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" rackmount kit available - up to four units fit in one RU
- External power supply or optional tray mounted power supply for one RU frame

Technical Data	
Power Supply Information	90-240VAC / 1 A / 50-60 Hz 5VDC
Data Rates	
Serial (RS232)	19,2 kBaud HW-Handshake
Analog 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	
Cat X	140 m
Multi-mode	400 m
Multi-mode OM3	1000 m
Single-mode	10 km

Functional Diagram



Product Types

K477-1SHC



CPU Unit
(103 x 143 x 29 mm)



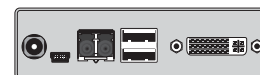
CON Unit
(103 x 143 x 29 mm)

Back

K477-1SHM / K477-1SHS

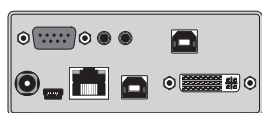


CPU Unit
(103 x 143 x 29 mm)

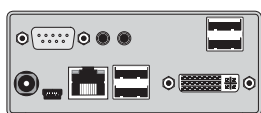


CON Unit
(103 x 143 x 29 mm)

K477-1S4CA



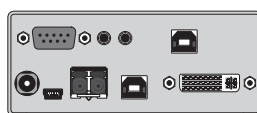
CPU Unit
(103 x 143 x 42 mm)



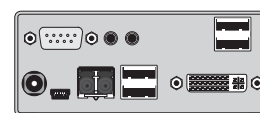
CON Unit
(103 x 143 x 42 mm)

Back

K477-1S4MA / K477-1S4SA

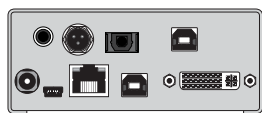


CPU Unit
(103 x 143 x 42 mm)

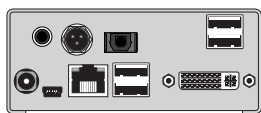


CON Unit
(103 x 143 x 42 mm)

K477-1S4CD



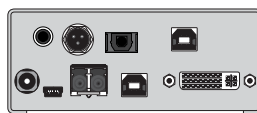
CPU Unit
(103 x 143 x 42 mm)



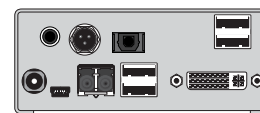
CON Unit
(103 x 143 x 42 mm)

Back

K477-1S4MD / K477-1S4SD

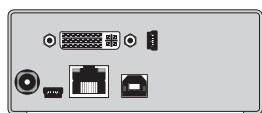


CPU Unit
(103 x 143 x 42 mm)



CON Unit
(103 x 143 x 42 mm)

K477-1SHCV



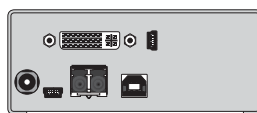
CPU Unit (mit VGA Eing.)
(103 x 143 x 42 mm)



CON Unit
(103 x 143 x 29 mm)

Back

K477-1SHMV / K477-1SHSV

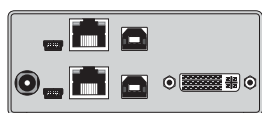


CPU Unit (mit VGA Eing.)
(103 x 143 x 42 mm)

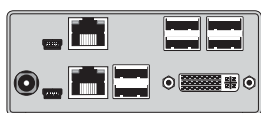


CON Unit
(103 x 143 x 29 mm)

K477-1STC



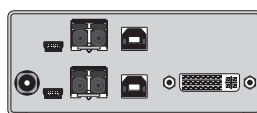
CPU Unit
(103 x 143 x 42 mm)



CON Unit
(103 x 143 x 42 mm)

Back

K477-1STM / K477-1STS



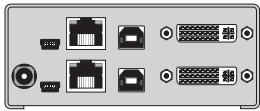
CPU Unit
(103 x 143 x 42 mm)



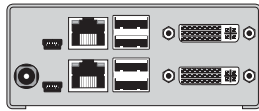
CON Unit
(103 x 143 x 42 mm)

Product Types

K477-2S4C



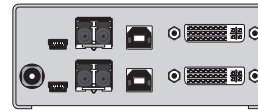
CPU Unit
(103 x 143 x 42 mm)



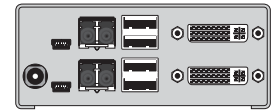
CON Unit
(103 x 143 x 42 mm)

Back

K477-2S4M / K477-2S4S



CPU Unit
(103 x 143 x 42 mm)



CON Unit
(103 x 143 x 42 mm)

Order Numbers



Please note that the devices are operated in pairs with a CPU Unit at the computer and a CON Unit at the console: the monitor and other peripherals. Part numbers beginning with "K" are kits containing a CPU Unit, CON Unit and all necessary cables and power supplies.

Number of Monitors	Single-/ Dual-Link	Maximum Resolution	USB	RS232	AUDIO	Data Transfer	Part No.
1	Single-Link	1920x1200	HID			Keyboard/Mouse	K477-1SHC
1	Single-Link	1920x1200	HID	✓	Analog bidirectional	Keyboard/Mouse	K477-1S4CA
1	Single-Link	1920x1200	HID		Digital unidirectional	Keyboard/Mouse	K477-1S4CD
1	Single-Link	1920x1200	HID			Keyboard/Mouse	With VGA input K477-1SHCV
1	Single-Link	1920x1200	2.0			Keyboard/Mouse	K477-1STC
2	Single-Link	1920x1200	HID			Keyboard/Mouse	K477-2S4C
1	Single-Link	1920x1200	HID			Keyboard/Mouse	K477-1SHM
1	Single-Link	1920x1200	HID	✓	Analog bidirectional	Keyboard/Mouse	K477-1S4MA
1	Single-Link	1920x1200	HID		Digital unidirectional	Keyboard/Mouse	K477-1S4MD
1	Single-Link	1920x1200	HID			Keyboard/Mouse	With VGA input K477-1SHMV
1	Single-Link	1920x1200	2.0			Keyboard/Mouse	K477-1STM
2	Single-Link	1920x1200	HID			Keyboard/Mouse	K477-2S4M
1	Single-Link	1920x1200	HID			Keyboard/Mouse	K477-1SHS
1	Single-Link	1920x1200	HID	✓	Analog bidirectional	Keyboard/Mouse	K477-1S4SA
1	Single-Link	1920x1200	HID		Digital unidirectional	Keyboard/Mouse	K477-1S4SD
1	Single-Link	1920x1200	HID			Keyboard/Mouse	With VGA input K477-1SHSV
1	Single-Link	1920x1200	2.0			Keyboard/Mouse	K477-1STS
2	Single-Link	1920x1200	HID			Keyboard/Mouse	K477-2S4S

Rackmount Hardware / Mounting Plates

Product	Part No.
19" rackmount kit for 1x ... 4x Single-Head equipment, for type: K477-1SHC, K477-1SHM, K477-1SHS	455-4G
19" rackmount kit for 1x 4x ... equipment for all other Draco Compact Extender	455-8G
19" power supply for up to 3 devices	455-PS
Mounting plate to mount by screws	455-1K
Mounting plate to mount by snap-on	455-2K

Cable / Optional Accessories

Product	Part No.
Cat 5, S-UTP-Simplex 4x2xAWG24	402-0J
Includes 2-plug assembly Cat X	402-0D
Multi-mode breakout cable 2G50	433-2M
Assembly includes 2 multi-mode LC connector	252-2L
Single-mode breakout cable 2E9	433-2S
Assembly includes 2 single-mode LC connector	252-2L
International power supply 100...240VAC/5VDC (save part for KVM units)	260-5G

Draco Vario Extender



- Wide range of options
- Four housing types
- Redundant power supply
- All connectors on one side

Product Information

The Draco Vario product family is a modular approach to extenders that allows customization for most applications. 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 multi-stage compression algorithm, you can be sure of superb image quality and smooth playback of HD vi-

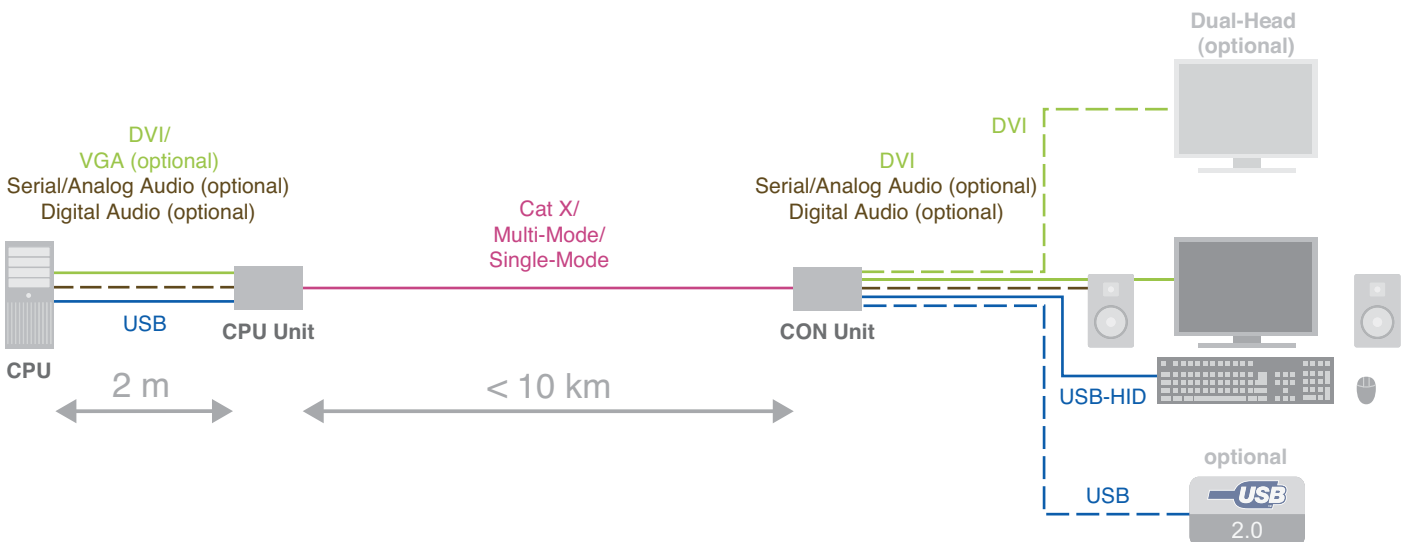
deo signals. Several options are available for each module including analog or digital audio, USB 2.0, VGA inputs, and RS232 serial data transports. Cable distances up to 140 m with Cat X, 400 m with multi-mode fiber, or 10 km with single-mode fiber cables can be achieved.

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" rackmount kit available
- Power supply included
- All devices: optional redundant power supply



























































































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 (RS232)	19,2 kBaud HW-Handshake
Analog Audio	Bidirectional Stereo-Audio Connection, nearly 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 2048x1152@60Hz/24-bit
Maximum Cable Distance	
Cat X	140 m
Multi-mode	400 m
Multi-mode OM3	1000 m
Single-mode	10 km

































































































Functional Diagram





















Order Numbers

 Please note that the devices are operated in pairs with a CPU Unit at the computer and a CON Unit at the console: the monitor and other peripherals. Part numbers beginning with “K” are kits containing a CPU Unit, CON Unit and all necessary cables and power supplies.

Number of Monitors	Single-/Dual-Link	Maximum Resolution	 USB	 RS232	 AUDIO	Data Transfer	Part No.
		1920x1200	HID				K474-1SHC
		1920x1200	HID				With VGA input K474-1SHCV
		1920x1200	HID	✓	Analog bidirectional		K474-1SHCA
		1920x1200	HID		Digital unidirectional		K474-1SHCD
		1920x1200	2 x HID				K474-1S4C
		1920x1200	2 x HID	✓	Analog bidirectional		K474-1S4CA
		1920x1200	2 x HID		Digital unidirectional		K474-1S4CD
		1920x1200	2.0				K474-1STC
		1920x1200	2.0	✓	Analog bidirectional		K474-1STCA
		1920x1200	2.0		Digital unidirectional		K474-1STCD
		1920x1200	HID				K474-1SHM
		1920x1200	HID				With VGA input K474-1SHMV
		1920x1200	HID	✓	Analog bidirectional		K474-1SHMA
		1920x1200	HID		Digital unidirectional		K474-1SHMD
		1920x1200	2 x HID				K474-1S4M
		1920x1200	2 x HID	✓	Analog bidirectional		K474-1S4MA
		1920x1200	2 x HID		Digital unidirectional		K474-1S4MD
		1920x1200	2.0				K474-1STM
		1920x1200	2.0	✓	Analog bidirectional		K474-1STMA
		1920x1200	2.0		Digital unidirectional		K474-1STMD
		1920x1200	HID				K474-1SHS
		1920x1200	HID				With VGA input K474-1SHSV
		1920x1200	HID	✓	Analog bidirectional		K474-1SHSA
		1920x1200	HID		Digital unidirectional		K474-1SHSD
		1920x1200	2 x HID				K474-1S4S
		1920x1200	2 x HID	✓	Analog bidirectional		K474-1S4SA
		1920x1200	2 x HID		Digital unidirectional		K474-1S4SD
		1920x1200	2.0				K474-1STS
		1920x1200	2.0	✓	Analog bidirectional		K474-1STSA

Number of Monitors	Single-/Dual-Link	Maximum Resolution	 USB	 RS232	 AUDIO	Data Transfer	Part No.	
		1920x1200	2.0			Digital unidirectional		K474-1STSD
		1920x1200	2 x HID					K474-2S4C
		1920x1200	2 x HID	✓	Analog bidirectional			K474-2S4CA
		1920x1200	2 x HID		Digital unidirectional			K474-2S4CD
		1920x1200	2.0					K474-2STC
		1920x1200	2.0	✓	Analog bidirectional			K474-2STCA
		1920x1200	2.0		Digital unidirectional			K474-2STCD
		1920x1200	2 x HID					K474-2S4M
		1920x1200	2 x HID	✓	Analog bidirectional			K474-2S4MA
		1920x1200	2 x HID		Digital unidirectional			K474-2S4MD
		1920x1200	2.0					K474-2STM
		1920x1200	2.0	✓	Analog bidirectional			K474-2STMA
		1920x1200	2.0		Digital unidirectional			K474-2STMD
		1920x1200	HID					K474-2S4S
		1920x1200	HID	✓	Analog bidirectional			K474-2S4SA
		1920x1200	HID		Digital unidirectional			K474-2S4SD
		1920x1200	2.0					K474-2STS
		1920x1200	2.0	✓	Analog bidirectional			K474-2STSA
		1920x1200	2.0		Digital unidirectional			K474-2STSD
		1920x1200	4 x HID					K474-4S8C
		1920x1200	4 x HID	✓	Analog bidirectional			K474-4S8CA
		1920x1200	4 x HID		Digital unidirectional			K474-4S8CD
		1920x1200	2.0					K474-4STC
		1920x1200	2.0	✓	Analog bidirectional			K474-4STCA
		1920x1200	2.0		Digital unidirectional			K474-4STCD
		1920x1200	4 x HID					K474-4S8M
		1920x1200	4 x HID	✓	Analog bidirectional			K474-4S8MA
		1920x1200	4 x HID		Digital unidirectional			K474-4S8MD
		1920x1200	2.0					K474-4STM
		1920x1200	2.0	✓	Analog bidirectional			K474-4STMA
		1920x1200	2.0		Digital unidirectional			K474-4STMD

Number of Monitors	Single-/Dual-Link	Maximum Resolution	 [*]	 RS232	 AUDIO	Data Transfer	Part No.
		1920x1200	4 x HID	✓	Analog bidirectional		K474-4S8SA
		1920x1200	4 x HID		Digital unidirectional		K474-4S8SD
		1920x1200	2.0				K474-4STS
		1920x1200	2.0	✓	Analog bidirectional		K474-4STSA
		1920x1200	2.0		Digital unidirectional		K474-4STSD

* "2.0" = 2 port HID + 4 port 2.0 transparent
 "HID" = 2 port HID

Rackmount Hardware / Mounting Plates

Product	Part No.
Fastening strips for mount by screw or snap-on for 2-, 4- and 6-housing	474-VPLATE
19" / 1U rackmount 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-way enclosure (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 8 HP/16 HP for 2, 4 or 6 slot model and 19" rack	474-BLND1
Blind plate 8 HP/16 HP for 4 or 6 slot model and 19" rack	474-BLND2
Blind plate 8 HP/16 HP for 19" rack	474-BLND4

Selection of Draco Extender Options



Experienced users can create more Draco Extender device models by combining the required models and enclosures. Please contact our consulting team for details and optional ordering information.

L474-BSHC /-BSHM /-BSHS



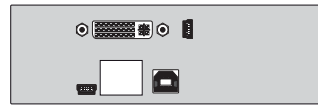
CPU Unit

R474-BSHC /-BSHM /-BSHS



CON Unit

L474-BSHCV /-BSHMV /-BSHSV



CPU Unit (with VGA/DVI input)

R474-BSHCV /-BSHMV /-BSHSV



CON Unit with IR-Receiver

L474-BXH



CPU Unit

R474-BXH



CON Unit

L474-BXTC /-BXTM /-BXTS



CPU Unit

R474-BXTC /-BXTM /-BXTS



CON Unit

L474-BAX



CPU Unit

R474-BAX



CON Unit

L474-BDX



CPU Unit

R474-BDX



CON Unit

L474-BAH



CPU Unit

R474-BAH



CON Unit

L474-BDH



CPU Unit

R474-BDH



CON Unit

L474-BDD



CPU Unit

R474-BDD



CON Unit

L474-BDA



CPU Unit

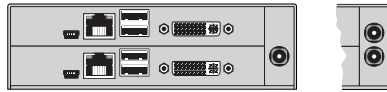
R474-BDA



CON Unit

Frame Assemblies

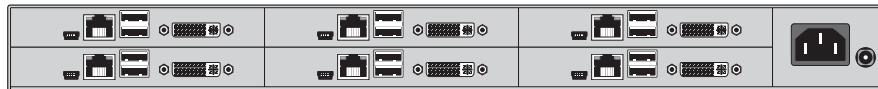
2 slot enclosure
(with or without redundant PSU)



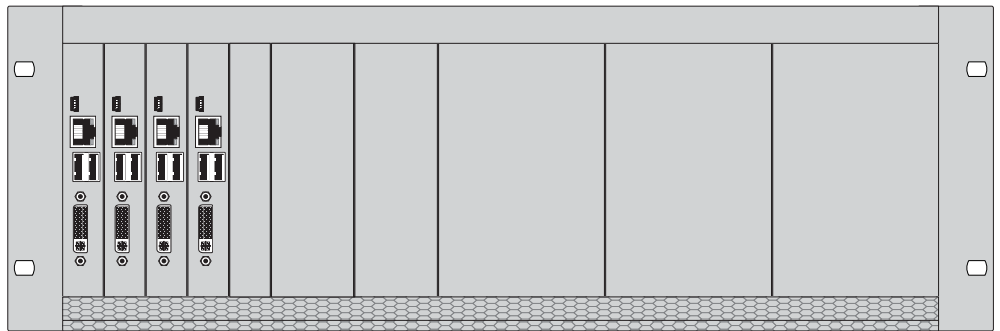
4 slot enclosure
(with or without redundant PSU)



6 slot enclosure
(with or without redundant PSU)



4 RU rack enclosure (21 slots) (with redundant PSU option available)



Order Numbers



Configure your preferred 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.
3. Select the type and number of installed components (CON Units) per base module.












Enclosures

Product	Part No.
Housing up to 2 modules and 1 x power supply	474-BODY2
Housing up to 2 modules + setup for redundancy power	474-BODY2R
Housing up to 4 modules and 1 x power supply	474-BODY4
Housing up to 4 modules + setup for redundancy power	474-BODY4R
Empty housing units up to 6 + setup for redundancy power	474-BODY6R
19" 4 U rack for up to 21 modules + 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, Cat X			1920x1200	HID		L474-BSHC
CON Unit, DVI-D, USB-HID, Cat X			1920x1200	HID		R474-BSHC
CPU Unit, DVI-D, USB-HID, multi-mode			1920x1200	HID		L474-BSHM
CON Unit, DVI-D, USB-HID, multi-mode			1920x1200	HID		R474-BSHM
CPU Unit, DVI-D, USB-HID, single-mode			1920x1200	HID		L474-BSHS
CON Unit, DVI-D, USB-HID, single-mode			1920x1200	HID		R474-BSHS







Basic Components

Product	Number of Monitors	Single-/Dual-Link	Maximum Resolution	USB	Data Transfer	Part No.
CPU Unit, DVI-I, USB-HID, Cat X			1920x1200	HID		With VGA input covering 2 slots L474-BSHCV
CON Unit, DVI-D, USB-HID, Cat X			1920x1200	HID		With VGA input covering 2 slots R474-BSHCV
CPU Unit, DVI-I, USB-HID, multi-mode			1920x1200	HID		With VGA input covering 2 slots L474-BSHMV
CON Unit, DVI-D, USB-HID, multi-mode			1920x1200	HID		With VGA input covering 2 slots R474-BSHMV
CPU Unit, DVI-I, USB-HID, single-mode			1920x1200	HID		With VGA input covering 2 slots L474-BSHSV
CON Unit, DVI-D, USB-HID, single-mode			1920x1200	HID		With VGA input covering 2 slots R474-BSHSV

Upgrade Modules

Product	USB	RS232	AUDIO	Part No.
CPU Unit, 2 x USB-HID	HID			L474-BXH
CON Unit, 2 x USB-HID	HID			R474-BXH
CPU Unit, RS232 + Analog Audio (bidirectional)		✓	Analog bidirectional	L474-BAX
CON Unit, RS232 + Analog Audio (bidirectional)		✓	Analog bidirectional	R474-BAX
CPU Unit, Digital Audio (unidirectional)			Digital unidirectional	L474-BDX
CON Unit, Digital Audio (unidirectional)			Digital unidirectional	R474-BDX
CPU Unit, RS232 + Analog Audio (bidirectional), 2x USB-HID	HID	✓	Analog bidirectional	L474-BAH
CON Unit, RS232 + Digital Audio (bidirectional), 2x USB-HID	HID	✓	Analog bidirectional	R474-BAH
CPU Unit, Digital Audio (unidirectional), 2x USB-HID	HID		Digital unidirectional	L474-BDH
CON Unit, Digital Audio (unidirectional), 2x USB-HID	HID		Digital unidirectional	R474-BDH
CPU Unit, Digital Audio (bidirectional)			Digital bidirectional	L474-BDD
CON Unit, Digital Audio (bidirectional)			Digital bidirectional	R474-BDD
CPU Unit, Digital Audio, RS232 + Digital Audio (bidirectional)			Analog (bidi) + Digital (uni)	L474-BDA
CON Unit, Digital Audio, RS232 + Digital 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, Cat X	2.0		L474-BXTC
CON Unit, USB 2.0, Cat X	2.0		R474-BXTC
CPU Unit, USB 2.0, multi-mode	2.0		L474-BXTM
CON Unit, USB 2.0, multi-mode	2.0		R474-BXTM
CPU Unit, USB 2.0, single-mode	2.0		L474-BXTS
CON Unit, USB 2.0, single-mode	2.0		R474-BXTS