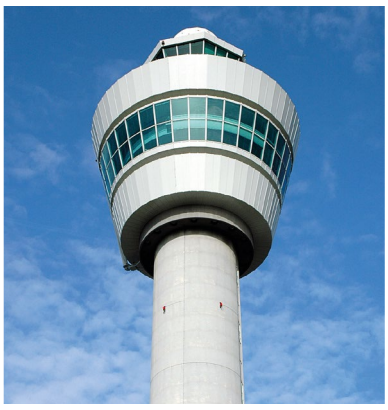
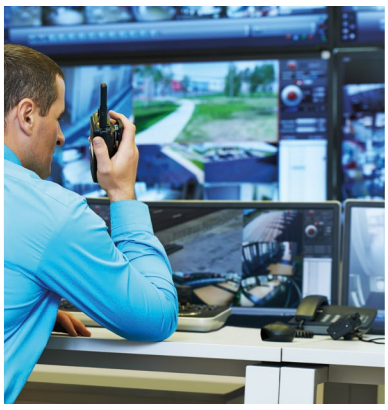
DP-KVM extenders

DP1.2-VisionXG

KVM extenders
Extender systems to bridge IT-distances

Catalogue V1.2


G&D IF IT'S KVM

G&D IF IT'S KVM

Guntermann & Drunck is regarded as a leading manufacturer of KVM equipment used in control rooms in air traffic control, broadcast studios, on ships and to monitor industrial processes.

With a powerful portfolio consisting of KVM extenders, switches and matrix switches, G&D's users get real added value. G&D provides the broadest KVM product portfolio at the market. Even with different features, all G&D products are compatible and can be combined. Our KVM solutions optimise the application of IT equipment and improve the working conditions for humans and computers.

No matter where KVM devices are installed, there's always one main requirement - robust, reliable, user-friendly and easy to operate KVM systems that can be adapted to future requirements and grow with your demands.

By short lines of communication G&D is able to solve challenging requirements and tailor systems to our customers' needs. We keep direct contact to our customers and are personally available. We are proactive and always keep an eye on the trends in the industry. Functionalities required by our customers are quickly implemented into our products. Our success can only be measured with our customers' satisfaction.

Trust in G&D for your optimal KVM solution.

DP1.2-VisionXG for native 4K-UltraHD resolutions and 8K resolutions when using two or more video channels

The DP1.2-VisionXG system is a powerful KVM extender to extend high-resolution 4K and 8K video signals at 60 Hz – pixel-perfect, uncompressed, without any loss and latency-free.

The DP1.2-VisionXG-CAT is available as variants displaying 1 or 2 video channels. The Fiber version is also available as variants displaying 3 or 4 video channels.

The video channels of the DP1.2-VisionXG are working source synchronously and can be combined on the console side. This enables the display of 4K@120 Hz or 8K@30 Hz when using two video channels and 8K@60 Hz when using four video channels.

Optical fibres (9/125 µm single-mode) let you transmit signals over distances of up to 10,000 m. Thanks to the innovative transmission pooling, the image data is combined and bundled with the USB 2.0 keyboard, mouse and audio data. Depending on the application, this helps you save transmission lines.

The extender system consists of a computer module (transmitter) and a console module (receiver) and facilitates the remote operation of one computer (up to 10,000 m).

Operating principle

The extenders of the DP1.2-VisionXG product family transmit a video signal with a resolution of up to 4096 x 2160 @ 60 Hz (4K @ 60 Hz) via each video channel - completely uncompressed.

Dispensing with compression enables latency-free transmission (zero delay) without frame drops and tearing.
A visually lossless image data compression (fall-back compression) can be used for emergency operations.
This allows you to continue working without problems if, for e.g. individual transmission links fail and this reduces the bandwidth to such an extent that uncompressed transmission is no longer possible.

The video channels of the multi-channel variants of the DP1.2-VisionXG work synchronously with the source and can therefore be combined on the console side. This enables 4K @ 120 Hz or 8K @ 30 Hz to be displayed when 2 video channels are used and 8K @ 60 Hz to be displayed when 4 video channels (only available in the fiber version) are used.

The DP1.2-VisionXG has an additional management network interface for WebIF, configuration, monitoring, SNMP and updates. The DP1.2-VisionXG uses the proven monitoring and SNMP technology for checking. The system is configured via the web interface. In addition, an on-screen display can also be used for configuration.

The workstation and computer modules can be easily put into operation via plug-and-play using a CAT cable or fiber optic cable in a 1: 1 connection. A local workstation can optionally be connected to the computer modules.

Highlights

- Native 4K resolution at 60 Hz per channel and source-synchronous aggregation when using multi-channel variants
- Supports 4K and UltraHD resolutions at 60Hz
- Supports 2560x1440 resolutions at 144Hz
- Supports 1920x1080 resolutions at 240Hz
- Supports 8K resolutions at 30Hz when using two video channels
- Supports 8K resolutions at 60Hz when using four video channels
- Pixel rate up to 600 MP/s
- Vertical frequency: 24 Hz - 240 Hz
- Horicontal frequency: 25 kHz - 295 kHz
- 24 bit colour mode
- Supports nVidia 3D-Vision 120Hz: 1680×1050@120 Hz
- Further standardized resolutions possible as part of the maximum pixel rate
- Uncompressed, lossless transmission in 1:1 performance, pixel perfect, latency free (zero delay) transmission, no frame drops, no tearing with a perfect hand eye coordination
- Transmission pooling: bundled transmission of image data, USB 2.0 keyboard, mouse and audio data; depending on the application, this helps you save transmission lines.
- Visually lossless image data compression (fall-back compression) can be activated for emergency operation (for example, if single transmission lines fail, the bandwidth may be reduced in a way that uncompressed transmission can no longer be ensured)
- Supports E-EDID for each video channel
- Generic implementation of DDC/CI information possible
- Numerous features for mission-critical applications: Network connection, web interface, monitoring function, syslog and SNMP

Details

Device

- Operation (competing and exclusive) via local or remote console
- Configuration and update via web application Config Panel 21 (HTML5, Java-free, optimised operation)
- Galvanic separation of transmitter and receiver
- Resistant against interference radiation
- Two network interfaces
- Redundant power and voltage supply
- Desktop variant including 19" rackmount set
- Ventilation concept for the use in cold/hot aisle installations

Signals

- DisplayPort 1.2
- Support of PS/2 and USB keyboard/mouse; even in mixed mode
- 100 % permanent keyboard/mouse emulation
- Transmission of bidirectional audio and RS232 signals by default
- Embedded audio on DisplayPort
- Transparent transmission of USB 2.0 (optional)

Support of the DDC/CI protocol

- DP1.2-VisionXG extender systems support the DDC/CI protocol. Thus, displays in control rooms can be automatically configured and the brightness of displays, for example, can simply be adjusted to external light conditions. However, support cannot be guaranteed for all monitors.

Transmission

- 10,000 m over two pairs of single-mode fibers (9/125 µm, 2,000 MHz*km, OS1)
- 400 m over two pairs of multi-mode fibers (50/125 µm, 4,700 MHz*km, OM4)
- 300 m over two pairs of multi-mode fibers (50/125 µm, 2,000 MHz*km, OM3)
- 82 m over two pairs of multi-mode fibers (50/125 µm, 500 MHz*km, OM2)
- 66 m over two pairs of multi-mode fibers (50/125 µm, 400 MHz*km)
- 33 m over two pairs of multi-mode fibers (62,5/125 µm, 200 MHz*km, OM1)
- 26 m over two pairs of multi-mode fibers (62,5/125 µm, 160 MHz*km, OM1)
- 100 m over CAT6a cables

Thanks to the innovative transmission pooling, the image data is combined and bundled with the USB 2.0 keyboard, mouse and audio data. Depending on the application, this helps you save transmission lines.

Network / Communication / Safety

- Link aggregation increases reliability of network ports
- Monitoring and reporting of operating status over web interface
- Report and request of system status via SNMP trap and agent
- Logbook: electronic notes about the device; can be exported as .csv file
- Ident LED to quickly find devices in complex installations

Details

Screen-freeze function

If the display loses the video signal due to a broken connection or a problem with the computer's graphics card, the Sreen-freeze function „freezes" the image last displayed on the monitor.

This status is highlighted by a red semi-transparent frame. In the meantime, the monitor displays the time and how long the video signal has been down so far. The function is automatically cancelled when the display receives an active video signal.

Monitoring

With the monitoring function, you can auto-output device status messages to syslog servers or SNMP. The web interface lets you monitor the device manually.

The monitoring function of the DP1.2-VisionXG queries the following values:

- Proactive monitoring of device states
- Event reporting function (syslog or SNMP traps)
- Status: Power supply unit (on/off)
- Status: Temperature threshold device (in/over limit)
- Status: Connection cable (ok/nok)
- Status: Computer (on/off)
- Status: Image signal graphics card computer (available/not available)
- Status: Peripherals, monitors, video signal, USB 2.0
- Monitoring: Availability of network interfaces
- Monitoring: Fan status

Variants

Transmission medium

- DP1.2-VisionXG-CAT:
  transmission via CAT-x cables
- DP1.2-VisionXG-Fiber:
  transmission via multimode or singlemode fiber optics

USB 2.0

- ARU2 variants

Design

- Units are supplied as desktop variants
- 19" rackmount kit included

Video channels

- Single-channel
- Multi-channel 2
- Multi-channel 3 (only fiber variants)
- Multi-channel 4 (only fiber variants)

Installation

The computer is linked to the back of the DP1.2-VisionXG transmitter. Distinctive cables connect the computer's keyboard, video, mouse, audio, and USB interfaces to the DP1.2-VisionXG computer module.

Installing the console module is just as easy: Simply connect the operating hardware with the corresponding interfaces of the DP1.2-VisionXG receiver.

Use the existing cabling structure to link transmitter and receiver (multimode or singlemode optical fibres).

DP1.2-VisionXG

General features DP1.2-VisionXG-CAT/Fiber

	DP1.2-VisionXG-CPU	DP1.2-VisionXG-CON
Interfaces for computer		
Video	1 x DisplayPort socket	-
PS/2 keyboard	1 x PS/2 socket	-
USB- keyboard/mouse	1 x USB-B socket	-
Audio	3,5-mm jack socket (Line In) 3,5-mm jack socket (Line Out)	-
RS232	1 x D-Sub9 socket	-
Interfaces for local workstation		
Monitor	1 x DisplayPort socket per video channel	-
PS/2 keyboard	1 x PS/2 socket	-
USB keyboard/mouse	2 x USB-A socket	-
Transmission to counterpart station		
KVM, audio and RS232	see specific features	
Interfaces for remote workstation		
Monitor	-	1 x DisplayPort socket per video channel
PS/2 keyboard/mouse	-	1 x PS/2 socket
USB keyboard/mouse	-	2 x USB-A socket
Generic-HID	-	1 x USB-A socket
Audio	-	3,5-mm jack socket (Line In) 3,5-mm jack socket (Line Out)
RS232	-	1 x D-Sub9 socket
Other interfaces		
Connection to network	2 x RJ45 socket	
Service	1 x Mini USB socket (type B)	
Graphics		
Format	DisplayPort (DP 1.2a)	
Pixel encoding	RGB 4:4:4 with 24bpp/8bpc	
Video bandwidth	25 MP/s to 600 MP/s, DisplayPort 4 Lanes, LBR, HBR, HBR2, SingleStreamTransmission (SST)	
Max. resolution	4096 x 2160 @ 60 Hz (4K @ 60 Hz) per video channel	
Exemplary resolutions	per video channel: 3840 x 2160 @ 60 Hz (4K @ 60 Hz) 2560 x 1440 @ 144 Hz 2048 x 2048 @ 60 Hz (2K x 2K) 1920 x 1080 @ 240 Hz further standardised resolutions possible	
Vertical frequency	24 Hz to 240 Hz	
Horizontal frequency	25 kHz to 295 kHz	
DDC	EDDC 1.2, DDC/CI	

DP1.2-VisionXG

General features DP1.2-VisionXG-CAT/Fiber

Audio (DisplayPort Digital)	
Transmission type	2 channel LPCM, stereo
Resolutions	16/20/24 bit
Sampling rates	up to 48 kHz
Audio	
Transmission type	analog, stereo
Resolution	24 bit digital
Sampling rate	96 kHz
Bandwidth	22 kHz
RS232	
Transmission type	transparent
Transmission rate	max. 230.400 bit/s
Transmitted signals	RxD, TxD, RTS, CTS, DTR, DSR, DCD
Main power supply	
Type	internal power pack
Connection	IEC plug (IEC-320 C14)
Voltage	AC100-240V/60-50Hz
Redundant power supply	
Type	internal power pack
Connection	IEC plug (IEC-320 C14)
Voltage	AC100-240V/60-50Hz
Operating environment	
Temperature	+5°C to +45°C
Air humidity	20% to 80%, non-condensing
Storage environment	
Temperature	-20°C to +60°C
Air humidity	15% to 85%, non-condensing

DP1.2-VisionXG-CAT

Specific features DP1.2-VisionXG-CAT-AR

	DP1.2-VisionXG-CAT-AR-CPU	DP1.2-VisionXG-CAT-AR-CON
Transmission to counterpart station		
KVM, audio and RS232	2 x RJ45 socket	
Casing		
Material	anodised aluminium	
Dimensions (W × H × D)	435 mm × 1 U × 284,5 mm	
Weight	approx. 2,6 kg	
Current/Power consumption		
Maximum current consumption	100-240 VAC/60-50Hz/0.7-0.3 A	100-240 VAC/60-50Hz/0.7-0.4 A
Maximum power consumption	31,7 W	40,1 W

Specific features DP1.2-VisionXG-CAT-ARU2

	DP1.2-VisionXG-CAT-ARU2-CPU	DP1.2-VisionXG-CAT-ARU2-CON
Transmission to counterpart station		
KVM, audio and RS232	2 x RJ45 socket	
Additional interface to computer		
USB (transparent)	1 x USB-B socket	-
Additional interfaces for remote workstation		
USB (transparent)	-	4 x USB-A socket
Casing		
Material	anodised aluminium	
Dimensions (W × H × D)	435 mm × 1 U × 284,5 mm	
Weight	approx. 2,6 kg	
Current/Power consumption		
Maximum current consumption	100-240 VAC/60-50Hz/0.7-0.4 A	100-240 VAC/60-50Hz/0.8-0.3 A
Maximum power consumption	32,7 W	52,5 W

DP1.2-VisionXG-CAT-MC2

Specific features DP1.2-VisionXG-CAT-MC2-AR

	DP1.2-VisionXG-CAT-MC2-AR-CPU	DP1.2-VisionXG-CAT-MC2-AR-CON
Transmission to counterpart station		
KVM, audio and RS232	4 x RJ45 socket	
Further exemplary resolution		
When using two video channels	7680 x 4320 @ 30 Hz (8K @ 30 Hz)	
Casing		
Material	anodised aluminium	
Dimensions (W × H × D)	435 mm × 1 U × 284,5 mm	
Weight	approx. 2,7 kg	
Current/Power consumption		
Maximum current consumption	100-240 VAC/60-50Hz/0.7-0.4 A	
Maximum power consumption	41,2 W	48,5 W

Specific features DP1.2-VisionXG-CAT-MC2-ARU2

	DP1.2-VisionXG-CAT-MC2-ARU2-CPU	DP1.2-VisionXG-CAT-MC2-ARU2-CON
Transmission to counterpart station		
KVM, audio and RS232	4 x RJ45 jacket	
Further exemplary resolution		
When using two video channels	7680 x 4320 @ 30 Hz (8K @ 30 Hz)	
Additional interface to computer		
USB (transparent)	1 x USB-B socket	-
Additional interfaces to remote workstation		
USB (transparent)	-	4 x USB-A socket
Casing		
Material	anodised aluminium	
Dimensions (W × H × D)	435 mm × 1 U × 284,5 mm	
Weight	approx. 2,7 kg	
Current/Power consumption		
Maximum current consumption	100-240 VAC/60-50Hz/0.7-0.4 A	100-240 VAC/60-50Hz/0.8-0.4 A
Maximum power consumption	42,1 W	60,9 W

DP1.2-VisionXG-Fiber

DP1.2-VisionXG-Fiber-AR-CON rear view

DP1.2-VisionXG-Fiber-ARU2-CON rear view

Specific features DP1.2-VisionXG-Fiber-AR

	DP1.2-VisionXG-Fiber-AR-CPU	DP1.2-VisionXG-Fiber-AR-CON
Transmission to counterpart station		
KVM, audio and RS232	2 × LWL LC-Duplex socket	
Casing		
Material	anodised aluminium	
Dimensions (W × H × D)	435 mm × 1 U × 284,5 mm	
Weight	approx. 2,6 kg	
Current/Power consumption		
Maximum current consumption	100-240 VAC/60-50Hz/0.7-0.3 A	100-240 VAC/60-50Hz/0.7-0.4 A
Maximum power consumption	31,7 W	40,1 W

Specific features DP1.2-VisionXG-Fiber-ARU2

	DP1.2-VisionXG-Fiber-ARU2-CPU	DP1.2-VisionXG-Fiber-ARU2-CON
Transmission to counterpart station		
KVM, audio and RS232	2 × LWL LC-Duplex socket	
Additional interface to computer		
USB (transparent)	1 x USB-B socket	-
Additional interfaces to remote workstation		
USB (transparent)	-	4 x USB-A socket
Casing		
Material	anodised aluminium	
Dimensions (W × H × D)	435 mm × 1 U × 284,5 mm	
Weight	approx. 2,6 kg	
Current/Power consumption		
Maximum current consumption	100-240 VAC/60-50Hz/0.7-0.4 A	100-240 VAC/60-50Hz/0.8-0.4 A
Maximum power consumption	32,7 W	52,5 W

DP1.2-VisionXG-Fiber-MC2

DP1.2-VisionXG-Fiber-MC2-AR-CON rear view

DP1.2-VisionXG-Fiber-MC2-ARU2-CON rear view

Specific features DP1.2-VisionXG-Fiber-MC2-AR

	DP1.2-VisionXG-Fiber-MC2-AR-CPU	DP1.2-VisionXG-Fiber-MC2-AR-CON
Transmission to counterpart station		
KVM, audio and RS232	4 x LWL LC-Duplex socket	
Further exemplary resolution		
When using two video channels	7680 x 4320 @ 30 Hz (8K @ 30 Hz)	
Casing		
Material	anodised aluminium	
Dimensions (W × H × D)	435 mm × 1 U × 284,5 mm	
Weight	approx. 2,7 kg	
Current/Power consumption		
Maximum current consumption	100-240 VAC/60-50Hz/0.7-0.4 A	
Maximum power consumption	41,2 W	48,5 W

Specific features DP1.2-VisionXG-CAT-MC2-ARU2

	DP1.2-VisionXG-CAT-MC2-ARU2-CPU	DP1.2-VisionXG-CAT-MC2-ARU2-CON
Transmission to counterpart station		
KVM, audio and RS232	4 x LWL LC-Duplex socket	
Further exemplary resolution		
When using two video channels	7680 x 4320 @ 30 Hz (8K @ 30 Hz)	
Additional interface to computer		
USB (transparent)	1 x USB-B socket	-
Additional interfaces to remote workstation		
USB (transparent)	-	4 x USB-A socket
Casing		
Material	anodised aluminium	
Dimensions (W × H × D)	435 mm × 1 U × 284,5 mm	
Weight	approx. 2,7 kg	
Current/Power consumption		
Maximum current consumption	100-240 VAC/60-50Hz/0.7-0.4 A	100-240 VAC/60-50Hz/0.8-0.4 A
Maximum power consumption	42,1 W	60,9 W

DP1.2-VisionXG-Fiber-MC3

DP1.2-VisionXG-Fiber-MC3-AR-CON rear view

DP1.2-VisionXG-Fiber-MC3-ARU2-CON rear view

Specific features DP1.2-VisionXG-Fiber-MC3-AR

	DP1.2-VisionXG-Fiber-MC3-AR-CPU	DP1.2-VisionXG-Fiber-MC3-AR-CON
Transmission to counterpart station		
KVM, audio and RS232	6 x LWL LC-Duplex socket	
Further exemplary resolution		
When using two video channels	7680 x 4320 @ 30 Hz (8K @ 30 Hz)	
Casing		
Material	anodised aluminium	
Dimensions (W × H × D)	435 mm × 1 U × 284,5 mm	
Weight	approx. 2,9 kg	approx. 3,3 kg
Current/Power consumption		
Maximum current consumption	100-240 VAC/60-50Hz/0.7-0.4 A	
Maximum power consumption	65,4 W	73,0 W

Specific features DP1.2-VisionXG-CAT-MC3-ARU2

	DP1.2-VisionXG-CAT-MC3-ARU2-CPU	DP1.2-VisionXG-CAT-MC3-ARU2-CON
Transmission to counterpart station		
KVM, audio and RS232	6 x LWL LC-Duplex socket	
Further exemplary resolution		
When using two video channels	7680 x 4320 @ 30 Hz (8K @ 30 Hz)	
Additional interface to computer		
USB (transparent)	1 x USB-B socket	-
Additional interfaces to remote workstation		
USB (transparent)	-	4 x USB-A socket
Casing		
Material	anodised aluminium	
Dimensions (W × H × D)	435 mm × 1 U × 284,5 mm	
Weight	approx. 2,9 kg	approx. 3,4 kg
Current/Power consumption		
Maximum current consumption	100-240 VAC/60-50Hz/0.7-0.4 A	100-240 VAC/60-50Hz/0.8-0.4 A
Maximum power consumption	67,5 W	93,3 W

DP1.2-VisionXG-Fiber-MC4

DP1.2-VisionXG-Fiber-MC4-AR-CON rear view

DP1.2-VisionXG-Fiber-MC4-ARU2-CON rear view

Specific features DP1.2-VisionXG-Fiber-MC4-AR

	DP1.2-VisionXG-Fiber-MC4-AR-CPU	DP1.2-VisionXG-Fiber-MC4-AR-CON
Transmission to counterpart station		
KVM, audio and RS232	8 x LWL LC-Duplex socket	
Further exemplary resolution		
When using four video channels	7680 x 4320 @ 60 Hz (8K @ 60 Hz)	
Casing		
Material	anodised aluminium	
Dimensions (W × H × D)	435 mm × 1 U × 284,5 mm	
Weight	approx. 3,6 kg	
Current/Power consumption		
Maximum current consumption	100-240 VAC/60-50Hz/1.0-0.5 A	100-240 VAC/60-50Hz/1.1-0.5 A
Maximum power consumption	77,3 W	83,5 W

Specific features DP1.2-VisionXG-CAT-MC4-ARU2

	DP1.2-VisionXG-CAT-MC4-ARU2-CPU	DP1.2-VisionXG-CAT-MC4-ARU2-CON
Transmission to counterpart station		
KVM, audio and RS232	8 x LWL LC-Duplex socket	
Further exemplary resolution		
When using four video channels	7680 x 4320 @ 60 Hz (8K @ 60 Hz)	
Additional interface to computer		
USB (transparent)	1 x USB-B socket	-
Additional interfaces to remote workstation		
USB (transparent)	-	4 x USB-A socket
Casing		
Material	anodised aluminium	
Dimensions (W × H × D)	435 mm × 1 U × 284,5 mm	
Weight	approx. 3,7 kg	
Current/Power consumption		
Maximum current consumption	100-240 VAC/60-50Hz/1.0-0.5 A	100-240 VAC/60-50Hz/1.0-0.5 A
Maximum power consumption	81,9 W	105,0 W

Features of multimode transmission modules

Data transmission	
Type	Optical fibres (2 fibres)
Type of interface	LC-Duplex
Wavelength (λ)	850 nm
Cable length (max.)	
Multimode 50/125µm, 4700MHz*km, OM4	400 meters
Multimode 50/125 µm, 2000 MHz*km, OM3	300 meters
Multimode 50/125 µm, 500 MHz*km, OM2	82 meters
Multimode 50/125 µm, 400MHz*km	66 meters
Multimode 62,5/125 µm, 200 MHz*km, OM1	33 meters
Multimode 62,5/125 µm, 160 MHz*km, FDDI-grade	26 meters

Features of singlemode transmission modules

Data transmission	
Type	Optical fibres (2 fibres)
Type of interface	LC-Duplex
Wavelength (λ)	1310 nm (1260 nm to 1355 nm)
Cable length (max.)	
Singlemode 9/125µm, class OS1	10 kilometers

List of item numbers DP1.2-VisionXG-CAT
Single-channel

Item No.	Description	USB 2.0	DT
A1110258	DP1.2-VisionXG-CAT-AR-CPU	no	Desktop and rackmount kit
A1110259	DP1.2-VisionXG-CAT-ARU2-CPU	yes	Desktop and rackmount kit
A1120376	DP1.2-VisionXG-CAT-AR-CON	no	Desktop and rackmount kit
A1120377	DP1.2-VisionXG-CAT-ARU2-CON	yes	Desktop and rackmount kit

Multi-channel (MC2)

Item No.	Description	USB 2.0	DT
A1210217	DP1.2-VisionXG-CAT-MC2-AR-CPU	no	Desktop and rackmount kit
A1210218	DP1.2-VisionXG-CAT-MC2-ARU2-CPU	yes	Desktop and rackmount kit
A1220253	DP1.2-VisionXG-CAT-MC2-AR-CON	no	Desktop and rackmount kit
A1220254	DP1.2-VisionXG-CAT-MC2-ARU2-CON	yes	Desktop and rackmount kit

List of item numbers DP1.2-VisionXG-Fiber
Single-channel

Item No.	Description	USB 2.0	DT
A1110193	DP1.2-VisionXG-Fiber(S)-AR-CPU	no	Desktop and rackmount kit
A1110194	DP1.2-VisionXG-Fiber(S)-ARU2-CPU	yes	Desktop and rackmount kit
A1110195	DP1.2-VisionXG-Fiber(M)-AR-CPU	no	Desktop and rackmount kit
A1110196	DP1.2-VisionXG-Fiber(M)-ARU2-CPU	yes	Desktop and rackmount kit
A1120285	DP1.2-VisionXG-Fiber(S)-AR-CON	no	Desktop and rackmount kit
A1120286	DP1.2-VisionXG-Fiber(S)-ARU2-CON	yes	Desktop and rackmount kit
A1120287	DP1.2-VisionXG-Fiber(M)-AR-CON	no	Desktop and rackmount kit
A1120288	DP1.2-VisionXG-Fiber(M)-ARU2-CON	yes	Desktop and rackmount kit

Multi-channel (MC2)

Item No.	Description	USB 2.0	DT
A1210200	DP1.2-VisionXG-Fiber(M)-MC2-AR-CPU	no	Desktop and rackmount kit
A1210201	DP1.2-VisionXG-Fiber(M)-MC2-ARU2-CPU	yes	Desktop and rackmount kit
A1210202	DP1.2-VisionXG-Fiber(S)-MC2-AR-CPU	no	Desktop and rackmount kit
A1210203	DP1.2-VisionXG-Fiber(S)-MC2-ARU2-CPU	yes	Desktop and rackmount kit
A1220236	DP1.2-VisionXG-Fiber(M)-MC2-AR-CON	no	Desktop and rackmount kit
A1220237	DP1.2-VisionXG-Fiber(M)-MC2-ARU2-CON	yes	Desktop and rackmount kit
A1220238	DP1.2-VisionXG-Fiber(S)-MC2-AR-CON	no	Desktop and rackmount kit
A1220239	DP1.2-VisionXG-Fiber(S)-MC2-ARU2-CON	yes	Desktop and rackmount kit

Multi-channel (MC3)

Item No.	Description	USB 2.0	DT
A1310065	DP1.2-VisionXG-Fiber(M)-MC3-AR-CPU	no	Desktop and rackmount kit
A1310066	DP1.2-VisionXG-Fiber(M)-MC3-ARU2-CPU	yes	Desktop and rackmount kit
A1310067	DP1.2-VisionXG-Fiber(S)-MC3-AR-CPU	no	Desktop and rackmount kit
A1310068	DP1.2-VisionXG-Fiber(S)-MC3-ARU2-CPU	yes	Desktop and rackmount kit
A1320062	DP1.2-VisionXG-Fiber(M)-MC3-AR-CON	no	Desktop and rackmount kit
A1320063	DP1.2-VisionXG-Fiber(M)-MC3-ARU2-CON	yes	Desktop and rackmount kit
A1320064	DP1.2-VisionXG-Fiber(S)-MC3-AR-CON	no	Desktop and rackmount kit
A1320065	DP1.2-VisionXG-Fiber(S)-MC3-ARU2-CON	yes	Desktop and rackmount kit

Multi-channel (MC4)

Item No.	Description	USB 2.0	DT
A1410211	DP1.2-VisionXG-Fiber(M)-MC4-AR-CPU	no	Desktop and rackmount kit
A1410212	DP1.2-VisionXG-Fiber(M)-MC4-ARU2-CPU	yes	Desktop and rackmount kit
A1410213	DP1.2-VisionXG-Fiber(S)-MC4-AR-CPU	no	Desktop and rackmount kit
A1410214	DP1.2-VisionXG-Fiber(S)-MC4-ARU2-CPU	yes	Desktop and rackmount kit
A1420262	DP1.2-VisionXG-Fiber(M)-MC4-AR-CON	no	Desktop and rackmount kit
A1420263	DP1.2-VisionXG-Fiber(M)-MC4-ARU2-CON	yes	Desktop and rackmount kit
A1420264	DP1.2-VisionXG-Fiber(S)-MC4-AR-CON	no	Desktop and rackmount kit
A1420265	DP1.2-VisionXG-Fiber(S)-MC4-ARU2-CON	yes	Desktop and rackmount kit

ABBREVIATIONS

CPU = Computer module
PC = Computer module
CON = Console module
REM = Console module

MC2 = Multi-channel 2
MC3 = Multi-channel 3
MC4 = Multi-channel 4

M = Multimode
S = Singlemode
S+ = Singlemode+

RM = For assembly in a 19" rack Desktop device
DT = Desktop device
DP = DisplayPort™

A = Audio
R = RS232
U = Integr. USB 2.0 up to 16 MBit/s
U2 = Transp. USB 2.0 Hi-Speed 480 Mbit/s
D = Delay

EQUIPMENT FEATURES

- Audio
- CAT cable
- Compact setup
- CrossDisplay-Switching
- Delay
- DisplayPort™
- DVI dual link video
- DVI single link video
- Expansion
- Fiber optics
- High Definition Multimedia Interface
- Keyboard/Mouse
- KVM-over-IP™
- Media control
- Mix & Match
- Modular setup
- Monitoring
- Multi user
- Multi-channel video
- Network connection
- Power switching
- Remote IP
- RS232
- Screen-Freeze
- Separate local/remote user
- Single user
- USB 2.0
- USB 3.0
- VGA video
- Web Interface

COLOUR CATEGORY

- KVM extenders
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- Monitoring & SNMP
- KVM MultiPower
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