

# Technical data

## General features of the series

<b>DP1.2-VISION-CAT SERIES</b>		
<b>Interfaces for computers</b>	Video:	› see specific features
	PS/2 keyboard:	1 × PS/2 socket
	USB keyboard/mouse:	1 × USB-B socket
	Audio:	3.5-mm jack plug (Line In) 3.5-mm jack plug (Line Out)
	USB 2.0:	› Variant -ARU Shared transmission of signals of USB devices as well as keyboard and mouse via USB-B socket.  › Variant -ARU2 1 × USB-B socket
	RS232:	1 × RS232 socket
<b>Interfaces for remote console</b>	Monitor:	› see specific features
	PS/2 keyboard/mouse:	1 × PS/2 socket
	USB keyboard/mouse:	2 × USB-A socket
	Generic-HID:	1 × USB-A socket
	Audio:	3.5-mm jack plug (Speaker) 3.5-mm jack plug (Line In)
	USB 2.0: › Variant -ARU	2 × USB-A socket
	USB 2.0: › Variant -ARU2	4 × USB-A socket
	RS232:	1 × RS232 plug
<b>Interfaces for local console</b>	Monitor:	› see specific features
	PS/2 keyboard:	1 × PS/2 socket
	USB keyboard/mouse:	2 × USB-A socket
<b>Other interfaces</b>	Connection to network:	1 × RJ 45 socket (10/100 MBit/s)
	Service:	1 × Mini-USB socket (type B)
<b>Audio</b> › DisplayPort Digital	Transmission type:	2 channel LPCM, stereo
	Resolutions:	16/20/24 bit
	Sampling rates:	up to 48 kHz
<b>Audio</b>	Transmission type:	transparent, bidirectional
	Resolution:	24 bit digital, Stereo
	Sampling rate:	96 kHz
	Bandwidth:	22 kHz

**DP1.2-VISION-CAT SERIES**

<b>Graphics</b>	Format:	DisplayPort (DP 1.2a)
	Colour depth:	24 Bit
	Pixel encoding:	RGB 4:4:4 with 24bpp/8bpc
	Videobandwidth:	max. 600 MP/s, DisplayPort 4 Lanes, LBR, HBR, HBR2, SingleStreamTransport (SST)
	Max. resolution per video channel:	<ul style="list-style-type: none"> <li>▪ 2560 × 1600 @ 60Hz</li> <li>▪ 4096 × 2160 @ 60 Hz (4Kp60Hz)</li> </ul>
	Exemplary resolutions:	pro Videokanal: <ul style="list-style-type: none"> <li>▪ 1920 × 1080 @ 240 Hz</li> <li>▪ 1920 × 1200 @ 60Hz</li> <li>▪ 2048 × 2048 @ 60Hz (2K × 2K)</li> <li>▪ 2560 × 1440 @ 144 Hz</li> <li>▪ 2560 × 1600 @ 60Hz</li> <li>▪ 3840 × 2160 @ 60 Hz (Ultra HD/60Hz)</li> <li>▪ 4096 × 2160 @ 60 Hz (4Kp60Hz)</li> </ul> ▶ further standardised resolutions possible
	Vertical frequency:	24 Hz bis 240 Hz
	Horizontal frequency:	25 kHz bis 295 kHz
<b>RS232</b>	Transmission type:	transparent
	Transmission rate:	max. 115.200 bit/s
	Supported signals:	RxD, TxD, RTS, CTS, DTR, DSR, DCD
<b>USB 2.0 full speed</b> ▶ -ARU variant	Specification:	USB 2.0
	Transmission type:	transparent
	Supported devices:	high power devices (up to 500 mA)
	Range:	max. 140 meters
<b>USB 2.0 high speed</b> ▶ -ARU2 variant	Specification:	USB 2.0
	Transmission type:	transparent
	Transmission rate:	max. 480 Mbit/s
	Supported devices:	high power devices (up to 500 mA)
	Range:	max. 100 meters
<b>Main power supply</b>	Type:	internal power pack
	Connector:	IEC plug (IEC-320 C14)
	Voltage:	AC100-240V/60-50Hz
<b>Redundant power supply</b>	Type:	external power pack
	Connector:	miniDIN-4 Power socket
	Voltage:	+12VDC

## Specific features of single-channel devices

<b>DP1.2-VISION-CAT-CPU</b>		
<b>Interfaces for local console</b>	Monitor:	1 × DisplayPort jack
<b>Interfaces for computer</b>	Video:	1 × DisplayPort jack
<b>Interfaces to computer module</b>	KVM, Audio and RS232: ‣ When using the -ARU variant the signals of USB 2.0 devices are transmitted via this cable.	1 × RJ 45 socket
	USB 2.0 ‣ -ARU2 variant	1 × RJ 45 socket
	Transmission 2: ‣ -UC variant	1 × RJ 45 socket
<b>Casing</b>	Material:	anodised aluminium
	Dimensions (W × H × D):	210 × 44 × 210 mm (Desktop) 19" × 1 U × 210 mm (Rackmount)
	Weight:	approx. 1.4 kg
<b>Operating environment</b>	Temperature:	+5 °C to +45 °C
	Air humidity:	20% to 80%, non-condensing
<b>Storage environment</b>	Temperature:	-20 °C to +60 °C
	Air humidity:	15% to 85%, non-condensing

<b>DP1.2-VISION-CAT-CON</b>		
<b>Interfaces for remote console</b>	Monitor:	1 × DisplayPort jack
<b>Interface to computer module</b>	KVM, Audio and RS232: ‣ When using the -ARU variant the signals of USB 2.0 devices are additionally transmitted via this cable.	1 × RJ 45 socket
	USB 2.0 ‣ -ARU2 variant	1 × RJ 45 socket
	Transmission 2: ‣ -CON-2 variant	1 × RJ 45 socket
<b>Casing</b>	Material:	anodised aluminium
	Dimensions (W × H × D):	210 × 44 × 210 mm (Desktop) 19" × 1 U × 210 mm (Rackmount)
	Weight:	approx. 1.4 kg
<b>Operating environment</b>	Temperature:	+5 °C to +45 °C
	Air humidity:	20% to 80%, non-condensing
<b>Storage environment</b>	Temperature:	-20 °C to +60 °C
	Air humidity:	15% to 85%, non-condensing

## Specific features of multi-channel devices

<b>DP1.2-VISION-CAT-MC2-CPU</b>		
<b>Interfaces for local console</b>	Monitor:	2 × DisplayPort jack
<b>Interfaces for computer</b>	Video:	2 × DisplayPort jack
<b>Interfaces to user module</b>	KVM, Audio and RS232: ‣ When using the -ARU variant the signals of USB 2.0 devices are transmitted via this cable.	2 × RJ 45 socket
	USB 2.0 ‣ -ARU2 variant	1 × RJ 45 socket
<b>Casing</b>	Material:	anodised aluminium
	Dimensions (W × H × D):	270 × 44 × 210 mm
	Weight:	approx. 1.7 kg
<b>Operating environment</b>	Temperature:	+5 °C to +45 °C
	Air humidity:	20% to 80%, non-condensing
<b>Storage environment</b>	Temperature:	-20 °C to +60 °C
	Air humidity:	15% to 85%, non-condensing
<b>DP1.2-VISION-CAT-MC2-CON</b>		
<b>Interfaces for remote console</b>	Monitor:	2 × DisplayPort jack
<b>Interface to computer module</b>	KVM, Audio and RS232: ‣ When using the -ARU variant the signals of USB 2.0 devices are additionally transmitted via this cable.	2 × RJ 45 socket
	USB 2.0 ‣ -ARU2 variant	1 × RJ 45 socket
<b>Casing</b>	Material:	anodised aluminium
	Dimensions (W × H × D):	270 × 44 × 210 mm
	Weight:	approx. 1.7 kg
<b>Operating environment</b>	Temperature:	+5 °C to +45 °C
	Air humidity:	20% to 80%, non-condensing
<b>Storage environment</b>	Temperature:	-20 °C to +60 °C
	Air humidity:	15% to 85%, non-condensing

**DP1.2-VISION-CAT-MC4-CPU**

<b>Interfaces for local console</b>	Monitor:	4 × DisplayPort jack
<b>Interfaces to computer</b>	Video:	4 × DisplayPort jack
<b>Interfaces to user module</b>	KVM, Audio and RS232: ‣ When using the -ARU variant the signals of USB 2.0 devices are transmitted via this cable.	4 × RJ 45 socket
	USB 2.0 ‣ -ARU2 variant	1 × RJ 45 socket
<b>Casing</b>	Material:	anodised aluminium
	Dimensions (W × H × D):	435 × 44 × 210 mm
	Weight:	approx. 2.5 kg
<b>Operating environment</b>	Temperature:	+5 °C to +45 °C
	Air humidity:	20% to 80%, non-condensing
<b>Storage environment</b>	Temperature:	-20 °C to +60 °C
	Air humidity:	15% to 85%, non-condensing

**DP1.2-VISION-CAT-MC4-CON**

<b>Interfaces for remote console</b>	Monitor:	4 × DisplayPort jack
<b>Interface to computer module</b>	KVM, Audio and RS232: ‣ When using the -ARU variant the signals of USB 2.0 devices are additionally transmitted via this cable.	4 × RJ 45 socket
	USB 2.0 ‣ -ARU2 variant	1 × RJ 45 socket
<b>Casing</b>	Materialien:	anodised aluminium
	Dimensions (W × H × D):	435 × 44 × 210 mm
	Weight:	approx. 2.5 kg
<b>Operating environment</b>	Temperature:	‣ -AR variant +5 to +45 °C  ‣ -ARU and -ARU2 variant +5 to +40 °C
	Air humidity:	20% to 80%, non-condensing
<b>Storage environment</b>	Temperature:	-20 °C to +60 °C
	Air humidity:	15% to 85%, non-condensing

## Current consumption

<b>Device variant</b>	<b>Main power supply</b>	<b>Redundant power supply</b>
<b>AR-CPU</b>	100-240V/60-50Hz/0.6-0.3A	12VDC/2.0A
<b>AR-CPU-UC</b>	100-240V/60-50Hz/0.6-0.3A	12VDC/2.0A
<b>AR-CON</b>	100-240V/60-50Hz/0.6-0.3A	12VDC/2.0A
<b>AR-CON-2</b>	100-240V/60-50Hz/0.6-0.3A	12VDC/2.0A
<b>ARU-CPU</b>	100-240V/60-50Hz/0.6-0.3A	12VDC/2.0A
<b>ARU-CPU-UC</b>	100-240V/60-50Hz/0.6-0.3A	12VDC/2.0A
<b>ARU-CON</b>	100-240V/60-50Hz/0.9-0.5A	12VDC/3.1A
<b>ARU-CON-2</b>	100-240V/60-50Hz/0.9-0.5A	12VDC/3.1A
<b>ARU2-CPU</b>	100-240V/60-50Hz/0.6-0.3A	12VDC/2.0A
<b>ARU2-CON</b>	100-240V/60-50Hz/0.9-0.5A	12VDC/3.1A
<b>MC2-AR-CPU</b>	100-240V/60-50Hz/0.7-0.4A	12VDC/3.1A
<b>MC2-AR-CON</b>	100-240V/60-50Hz/0.7-0.4A	12VDC/3.1A
<b>MC2-ARU-CPU</b>	100-240V/60-50Hz/0.7-0.4A	12VDC/3.1A
<b>MC2-ARU-CON</b>	100-240V/60-50Hz/1.0-0.5A	12VDC/3.9A
<b>MC2-ARU2-CPU</b>	100-240V/60-50Hz/0.7-0.4A	12VDC/3.1A
<b>MC2-ARU2-CON</b>	100-240V/60-50Hz/1.0-0.5A	12VDC/3.9A
<b>MC4-AR-CPU</b>	100-240V/60-50Hz/1.2-0.6A	12VDC/4.9A
<b>MC4-AR-CON</b>	100-240V/60-50Hz/1.2-0.6A	12VDC/4.9A
<b>MC4-ARU-CPU</b>	100-240V/60-50Hz/1.2-0.6A	12VDC/4.9A
<b>MC4-ARU-CON</b>	100-240V/60-50Hz/1.5-0.7A	12VDC/6.7A
<b>MC4-ARU2-CPU</b>	100-240V/60-50Hz/1.2-0.6A	12VDC/4.9A
<b>MC4-ARU2-CON</b>	100-240V/60-50Hz/1.5-0.7A	12VDC/6.9A