

Technical data

General features of the series

DP1.2-VISION-FIBER SERIES		
Interfaces for computers	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
Interfaces for remote console	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
Interfaces for local console	Monitor:	› see specific features
	PS/2 keyboard:	1 × PS/2 socket
	USB keyboard/mouse:	2 × USB-A socket
Other interfaces	Connection to network:	1 × RJ 45 socket (10/100 MBit/s)
	Service:	1 × Mini-USB socket (type B)
Audio › DisplayPort Digital	Transmission type:	2 channel LPCM, stereo
	Resolutions:	16/20/24 bit
	Sampling rates:	up to 48 kHz
Audio	Transmission type:	transparent, bidirectional
	Resolution:	24 bit digital, Stereo
	Sampling rate:	96 kHz
	Bandwidth:	22 kHz

DP1.2-VISION-FIBER SERIES

Graphics	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"> ▪ 2560 × 1600 @ 60Hz ▪ 4096 × 2160 @ 60 Hz (4Kp60Hz)
	Exemplary resolutions:	pro Videokanal: <ul style="list-style-type: none"> ▪ 1920 × 1080 @ 240 Hz ▪ 1920 × 1200 @ 60Hz ▪ 2048 × 2048 @ 60Hz (2K × 2K) ▪ 2560 × 1440 @ 144 Hz ▪ 2560 × 1600 @ 60Hz ▪ 3840 × 2160 @ 60 Hz (Ultra HD/60Hz) ▪ 4096 × 2160 @ 60 Hz (4Kp60Hz) › further standardised resolutions possible
	Vertical frequency:	24 Hz bis 240 Hz
	Horizontal frequency:	25 kHz bis 295 kHz
	RS232	Transmission type:
Transmission rate:		max. 115.200 bit/s
Supported signals:		RxD, TxD, RTS, CTS, DTR, DSR, DCD
USB 2.0 full speed › -ARU variant	Specification:	USB 2.0
	Transmission type:	transparent
	Supported devices:	high power devices (up to 500 mA)
	Range:	max. 10.000 meters
USB 2.0 high speed › -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. 10.000 meters
Main power supply	Type:	internal power pack
	Connector:	IEC plug (IEC-320 C14)
	Voltage:	AC100-240V/60-50Hz
Redundant power supply	Type:	external power pack
	Connector:	miniDIN-4 Power socket
	Voltage:	+12VDC

Specific features of single-channel devices

DP1.2-VISION-FIBER-CPU		
Interfaces for local console	Monitor:	1 × DisplayPort jack
Interfaces for computer	Video:	1 × DisplayPort jack
Interfaces to user module	KVM, Audio and RS232: ‣ When using the -ARU variant the signals of USB 2.0 devices are transmitted via this cable.	1 × LC duplex socket
	USB 2.0 ‣ -ARU2 variant	1 × LC duplex socket
	Transmission 2: ‣ -UC variant	1 × LC duplex socket
Casing	Material:	anodised aluminium
	Dimensions (W × H × D):	210 × 44 × 210 mm (Desktop) 19" × 1 U × 210 mm (Rackmount)
	Weight:	approx. 1.4 kg
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-VISION-FIBER-CON		
Interfaces for remote console	Monitor:	1 × DisplayPort jack
Interface to computer module	KVM, Audio and RS232: ‣ When using the -ARU variant the signals of USB 2.0 devices are additionally transmitted via this cable.	1 × LC duplex socket
	USB 2.0 ‣ -ARU2 variant	1 × LC duplex socket
	Transmission 2: ‣ -CON-2 variant	1 × LC duplex socket
Casing	Material:	anodised aluminium
	Dimensions (W × H × D):	210 × 44 × 210 mm (Desktop) 19" × 1 U × 210 mm (Rackmount)
	Weight:	approx. 1.5 kg
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

Specific features of multi-channel devices

DP1.2-VISION-FIBER-MC2-CPU		
Interfaces for local console	Monitor:	2 × DisplayPort jack
Interfaces for computer	Video:	2 × DisplayPort jack
Interfaces to user module	KVM, Audio and RS232: ‣ When using the -ARU variant the signals of USB 2.0 devices are transmitted via this cable.	2 × LC duplex socket
	USB 2.0 ‣ -ARU2 variant	1 × LC duplex socket
Casing	Material:	anodised aluminium
	Dimensions (W × H × D):	270 × 44 × 210 mm
	Weight:	approx. 1.8 kg
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-VISION-FIBER-MC2-CON		
Interfaces for remote console	Monitor:	2 × DisplayPort jack
Interface to computer module	KVM, Audio and RS232: ‣ When using the -ARU variant the signals of USB 2.0 devices are additionally transmitted via this cable.	2 × LC duplex socket
	USB 2.0 ‣ -ARU2 variant	1 × LC duplex socket
Casing	Material:	anodised aluminium
	Dimensions (W × H × D):	270 × 44 × 210 mm
	Weight:	approx. 1.8 kg
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-VISION-FIBER-MC4-CPU

Interfaces for local console	Monitor:	4 × DisplayPort jack
Interfaces to computer	Video:	4 × DisplayPort jack
Interfaces to user module	KVM, Audio and RS232: ‣ When using the -ARU variant the signals of USB 2.0 devices are transmitted via this cable.	4 × LC duplex socket
	USB 2.0 ‣ -ARU2 variant	1 × LC duplex socket
Casing	Material:	anodised aluminium
	Dimensions (W × H × D):	435 × 44 × 210 mm
	Weight:	approx. 2.6 kg
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-VISION-FIBER-MC4-CON

Interfaces for remote console	Monitor:	4 × DisplayPort jack
Interface to computer module	KVM, Audio and RS232: ‣ When using the -ARU variant the signals of USB 2.0 devices are additionally transmitted via this cable.	4 × LC duplex socket
	USB 2.0 ‣ -ARU2 variant	1 × LC duplex socket
Casing	Materialien:	anodised aluminium
	Dimensions (W × H × D):	435 × 44 × 210 mm
	Weight:	approx. 2.6 kg
Operating environment	Temperature:	‣ -AR variant +5 °C to +45 °C ‣ -ARU and -ARU2 variant +5 °C to +40 °C
	Air humidity:	20% to 80%, non-condensing
Storage environment	Temperature:	-20 °C to +60 °C
	Air humidity:	15% to 85%, non-condensing

Current consumption

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

Features of transmission modules

MULTIMODE TRANSMISSION MODULE		
Data transmission	Type:	Optical fibres (2 fibres)
	Type of interface:	LC duplex
Cable length (max.)	Multimode 62.5/125 μm :	100 meters
	Multimode 50.0/125 μm , Class OM2:	200 meters
	Multimode 50.0/125 μm , Class OM3:	400 meters
Performance data	Wavelength(λ):	850 nm (830 nm bis 860 nm)
	Optical power output (P_{OUT}) in 50 oder 62,5 μm MMF:	-9,0 dBm bis -2,5 dBm
	Receiving sensitivity (P_{MIN}):	-15 dBm (OMA)
	Sensitivity – Stressed (P_S):	138 μW (50 μm MMF)
SINGLEMODE (S) TRANSMISSION MODULE		
Data transmission	Type:	Optical fibres (2 fibres)
	Type of interface:	LC duplex
Cable length (max.)	Singlemode 9/125 μm , Class OS1:	5 Kilometer
Performance data	Wavelength(λ):	1310 nm (1260 nm bis 1350 nm)
	Optical power output (P_{OUT}) in 9 μm SMF:	-9,5 dBm bis -3,0 dBm
	Receiving sensitivity (P_{MIN}):	-18 dBm (OMA)
SINGLEMODE (S+) TRANSMISSION MODULE		
Data transmission	Type:	Optical fibres (2 fibres)
	Type of interface:	LC duplex
Cable length (max.)	Singlemode 9/125 μm , Class OS1:	10 Kilometer
Performance data	Wavelength(λ):	1310 nm (1260 nm bis 1360 nm)
	Optical power output (P_{OUT}) in 9 μm SMF:	-8,4 dBm bis -1,0 dBm
	Receiving sensitivity (P_{MIN}):	-18 dBm (OMA)