

# Selection Guide

## Embedded Video Komponenten

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2 von 2 Artikel aus dem Bereich  
NVIDIA based AI-Solutions  
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**JetStream Multi-Channel Video AI  
Carrier Board**

**JetStream Multi-Channel Video AI  
Board (HD-SDI)**

PC/104 (96 x 90 mm)	-	-
PC/104-Plus (96/99 x 90 mm)	-	-
PCI/104	-	-
PCI/104-Express (96/99 x 90/117mm)	-	-
PCIe/104	x	x
Controller	-	-
SD	-	-
HD SATA	-	-
Graphic Interface	DVI, 2x HDMI	DVI, 2x HDMI
Interface COM	1x 1x RS232	1x 1x RS232
CAN	-	-
Interface USB	USB 2.0 USB 2.0	USB 2.0 USB 2.0
Interface LAN	10/100/1000 BASE-T	10/100/1000 BASE-T
Mini PCIe	-	-
Camera	-	-
Video Input	Dual HDMI input,2x Dual-lane MIPI CSI Expansion ports (option)	Dual HDMI input,2x Dual-lane MIPI CSI Expansion ports (option)
Resolution	4K	4K
Format NTSC	x	x
Format CCIR601-NTSC	-	-
Format PAL	x	x
Format CCIR-PAL	-	-
Format RS-170	x	x
Format SECAM	-	-
Format RGB	-	-
Format YCbCr	-	-
Adjustment Software	-	-
Processing	-	-
Encoding	ITU-T H.264 (ISO / IEC 14496-10), ITU-T H.265 (ISO / IEC 23008-2)	ITU-T H.264 (ISO / IEC 14496-10), ITU-T H.265 (ISO / IEC 23008-2)
Decoding/Playback	-	-
Codec	-	-
Performance	-	-
Overlay Features	-	-
Video Output	Audio output via HDMI	Audio output via HDMI
Video Latency	-	-
Audio	-	-
SIM Card	-	-
GPS	-	-
PCI	-	-
PCIe	-	-
ISA	-	-
PC/104	-	-
PC/104-Plus	-	-
PCI/104	-	-
PCI/104-Express	4x	4x
PCIe/104	x	x
Operating System	-	-
Operating System Support	-	-
Input Voltage Nominal	9V	9V
Input Voltage Min/Max	15V	15V
Input Power	-	-
Battery	-	-
Operating Temperature	-	-
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C
Protection	-	-
MTBF	-	-
Certification	-	-
Dimensions	4,55 x 3,775 in PC/104 form factor	4,55 x 3,775 in PC/104 form factor
Weight	-	-
Material	-	-
Typ. Application	-	-

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### JetStream Multi-Channel Video AI Carrier Board

### JetStream Multi-Channel Video AI Board (HD-SDI)

#### Bestellinformation

Artikel-Nr. PPPF6110

JetStream Multi-Channel Video AI Carrier Board,  
-40°C to 85°C, w/ NVIDIA® Jetson Xavier™ NX,  
1x HDMI Display Output,  
2x HDMI/DVI Input, 8x NTSC/PAL/RS-170 Input

Artikel-Nr. PPPF6112

JetStream Multi-Channel Video AI Carrier Board  
(HD-SDI), -40°C to 85°C, w/ NVIDIA® Jetson  
Xavier™ NX, 1x HDMI Display Output,  
2x HD-SDI Input, 8x NTSC/PAL/RS-170 Input

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H.264/MPEG-4 Codecs  
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MPEG4000-D4



MPEG4000WA



VCodec-H264-D4

PC/104 (96 x 90 mm)			-
PC/104-Plus (96/99 x 90 mm)			x
PCI/104			-
PCI/104-Express (96/99 x 90/117mm)			-
PCIe/104			-
Controller	-	-	-
SD			
HD SATA			
Internal Storage			
Graphic Interface	4x Composite/CVBS	8x Composite/CVBS	4x Composite/CVBS
Interface COM			
CAN	-	-	-
Interface USB	-	-	-
Interface LAN	-	-	-
Mini PCIe	-	-	-
Mini PCI	-	-	-
Camera	-	-	-
Video Input	4x analog NTSC/PAL	4x analog NTSC/PAL (from 8)	4x analog NTSC/PAL
Resolution	-	-	-
Format NTSC	-	-	x
Format CCIR601-NTSC	-	-	x
Format PAL	-	-	x
Format CCIR-PAL	-	-	-
Format RS-170	-	-	x
Format SECAM	-	-	-
Format RGB	-	-	-
Format YCbCr	-	-	-
Adjustment Software	-	-	-
Processing	-	-	-
Encoding	-	-	-
Decoding/Playback	-	-	-
Uncompressed Output	-	-	-
Codec	MPEG-4/M-JPEG	MPEG-2/-4, M-JPEG	H.264/M-JPEG
Performance	x4 full frame rate @ 4CIF (up to 704 x 576)	x1 full frame rate @ D1 x4 1/4 full frame rate @ D1 x4 full frame rate @ CIF	x4 full frame rate @ 4CIF (up to 704 x 576)
Motion Detection	-	-	-
Overlay Features	Text OSD on recording and graphics on analog preview	Graphics overlay 128 bit HMAC digital watermarking	-
Video Output	-	-	-
Video Latency	-	-	-
Sound	-	-	-
Audio	4 Mono Audio inputs	4 Mono Audio inputs	4x mono inputs
SIM Card	-	-	-
GPS	-	-	-
PCI	x	x	-
PCIe	-	-	-
ISA	x	x	-
PC/104	-	-	-
PC/104-Plus	x	x	-
PCI/104	-	-	-
PCI/104-Express	-	-	-
PCIe/104	-	-	-
Operating System	-	-	-
Operating System Support	WIN, Linux	WIN, Linux, QNX	Windows and Linux
Input Voltage Nominal	5V	5V	5V
Input Voltage Min/Max	-	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	0°C to 60°C	0°C to 60°C	0°C to 60°C
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C (Optional)
Protection	-	-	-
MTBF	-	-	-
Certification	-	-	-
Dimensions	90 x 96 mm	90 x 96 mm	-
Weight	-	-	-
Material	-	-	-
Typ. Application	-	-	-

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H.264/MPEG-4 Codecs  
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MPEG4000-D4



MPEG4000WA



VCODEC-H264-D4

## Bestellinformation

Artikel-Nr. PPPF6018  
MPEG4000-D4, PC/104+ Board, 0°C to 60°C,  
4-channel, full frame rate, MPEG-4 video encoder

Artikel-Nr. PPPF6018-1  
MPEG4000-D4-Ext., PC/104+ Board, -40°C to  
85°C, 4-channel, full frame rate, MPEG-4 video  
encoder

Artikel-Nr. PPPF6017  
MPEG4000WA, PC/104+ Board, 0°C to 60°C,  
4-channel, MPEG4/MPEG2/M-JPEG video  
encoder/decoder

Artikel-Nr. PPPF6017-1  
MPEG4000WA-Ext., PC/104+ Board, -40°C to  
85°C, 4-channel, MPEG4/MPEG2/M-JPEG video  
encoder/decoder

Artikel-Nr. PPPF6071  
VCODEC-H264-D4-Ext, 0°C to 60°C, Quad  
Channel H.264 Codec for PC/104-Plus

Artikel-Nr. PPPF6071-1  
VCODEC-H264-D4-Ext, -40°C to 85°C, Quad  
Channel H.264 Codec for PC/104-Plus

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VCODEC-H264-D4X



H264ULL-DECODER



H264ULL-ENCODER

PC/104 (96 x 90 mm)			
PC/104-Plus (96/99 x 90 mm)			
PCI/104			
PCI/104-Express (96/99 x 90/117mm)			
PCIe/104			
Controller	-	-	-
SD			
HD SATA			
Internal Storage			
Graphic Interface	4x Composite/CVBS	4x Composite/CVBS	4x Composite/CVBS
Interface COM			
CAN	-	-	-
Interface USB	-	-	-
Interface LAN	-	-	-
Mini PCIe	-	-	-
Mini PCI	-	-	-
Camera	-	-	-
Video Input	4x analog NTSC/PAL	-	4x composite
Resolution	-	-	-
Format NTSC	-	4x	x
Format CCIR601-NTSC	-	x	x
Format PAL	-	4x	x
Format CCIR-PAL	-	x	x
Format RS-170	-	x	x
Format SECAM	-	-	-
Format RGB	-	-	-
Format YCbCr	-	-	-
Adjustment Software	-	-	-
Processing	-	-	-
Encoding	-	-	H.264 ISO/IEC 14496-10 baseline and Main Profile up to L4.2, Interlaced and progressive video encode support, Real time multi stream H.264 Ultra Low Latency capture
Decoding/Playback	-	H.264 ISO/IEC 14496-10 baseline and Main Profile up to L4.2, Real time multi stream H.264 Ultra Low Latency decompression	-
Uncompressed Output	-	-	-
Codec	H.264/M-JPEG	-	-
Performance	x4 full frame rate @ 4CIF (up to 704 x 576)	-	-
Motion Detection	-	-	-
Overlay Features	Text OSD on recording and graphics on analog preview	-	-
Video Output	-	4 composite NTSC/PAL/RS-170 video output channels, 10 bit DAC per channel	-
Video Latency			
Sound	-	-	-
Audio	4 Mono Audio inputs	-	-
SIM Card	-	-	-
GPS			
PCI	x	-	-
PCIe	-	-	-
ISA	x	-	-
PC/104	-	-	-
PC/104-Plus	x	-	-
PCI/104	-	x	x
PCI/104-Express	-	-	-
PCIe/104	-	-	-
Operating System	-	-	-
Operating System Support	WIN, Linux	Win-XP, Linux	Win-XP, Linux
Input Voltage Nominal	5V	5V	5V
Input Voltage Min/Max	-	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	0°C to 60°C	0°C to 60°C	0°C to 60°C
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C (Optional)	-40°C to 85°C (Optional)
Protection	-	-	-
MTBF	-	-	-
Certification	-	-	-
Dimensions	90 x 96 mm	-	-
Weight	-	-	-
Material	-	-	-
Typ. Application	-	-	-

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H.264/MPEG-4 Codecs  
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VCODEC-H264-D4X



H264ULL-DECODER



H264ULL-ENCODER

## Bestellinformation

Artikel-Nr. PPPF6019

VCODEC-H264-D4X, PC/104+ Board, 0°C to 60°C, 4-channel, full frame rate, H.264 video encoder

Artikel-Nr. PPPF6019-1

VCODEC-H264-D4X-Ext., PC/104+ Board, -40°C to 85°C, 4-channel, full frame rate, H.264 video encoder

Artikel-Nr. PPPF6059

H264ULL-DECODER, Ultra Low Latency Quad H.264H264ULL-DECODER, Video Decoder Card (0°C to 60°C)

Artikel-Nr. PPPF6059-1

H264ULL-DECODER, Ultra Low Latency Quad H.264, Video Decoder Card (-40°C to 85°C)

Artikel-Nr. PPPF6063

H264ULL-ENCODER, Ultra Low Latency Quad H.264, Video Encoder Card (0°C to 60°C)

Artikel-Nr. PPPF6063-1

H264ULL-ENCODER, Ultra Low Latency Quad H.264, Video Encoder Card (-40°C to 85°C)

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HDAV2000



H264-HD2000



HDAV2000KLV

PC/104 (96 x 90 mm)			-
PC/104-Plus (96/99 x 90 mm)			-
PCI/104			x
PCI/104-Express (96/99 x 90/117mm)			-
PCIe/104			-
Controller	-	-	-
SD			-
HD SATA			-
Internal Storage			-
Graphic Interface	HDMI	-	-
Interface COM			-
CAN	-	-	-
Interface USB	-	-	-
Interface LAN	-	-	-
Mini PCIe	-	-	-
Mini PCI	-	-	-
Camera	-	-	-
Video Input	Digital: HDMI und SDI	-	4x Composite NTSC/PAL/RS-170 video input channels
Resolution	-	-	-
Format NTSC	x	-	x
Format CCIR601-NTSC	x	-	x
Format PAL	x	-	x
Format CCIR-PAL	x	-	x
Format RS-170	x	-	x
Format SECAM	-	-	-
Format RGB	-	-	-
Format YCbCr	-	-	-
Adjustment Software	-	-	-
Processing	-	-	Extraction of KLV metadata from HD-SDI as per MISB 0605.3
Encoding	-	-	-
Decoding/Playback	-	-	-
Uncompressed Output	-	-	-
Codec	-	-	-
Performance	-	-	-
Motion Detection	-	-	-
Overlay Features	-	-	-
Video Output	HDMI, SDI, Composite: NTSC/PAL	-	-
Video Latency			
Sound	-	-	-
Audio	AC97 2.2 audio codec	-	AC97 2.2 audio codec
SIM Card	-	-	-
GPS			
PCI	-	x	-
PCIe	-	-	-
ISA	-	-	-
PC/104	-	-	-
PC/104-Plus	-	-	-
PCI/104	x	x	x
PCI/104-Express	-	-	-
PCIe/104	-	-	-
Operating System			
Operating System Support	Win-XP und Linux	WinXP, Linux	Windows, Linux
Input Voltage Nominal	-	3.3V, 5V	5V
Input Voltage Min/Max	-	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	0°C to 60°C	0°C to 60°C	0°C to 60°C
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Protection	-	-	-
MTBF	-	-	-
Certification	-	-	-
Dimensions	90 x 96 mm	91 x 96 mm	-
Weight	-	-	146g
Material	-	-	-
Typ. Application	-	-	-

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H.264/MPEG-4 Codecs  
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HDAV2000



H264-HD2000



HDAV2000KLV

## Bestellinformation

Artikel-Nr. PPPF6058  
HDAV2000, PCI/104, 0 to 60°C, Endcodes video  
to the H.264/MPEG-4 AVC

Artikel-Nr. PPPF6058-1  
HDAV2000-EXT, PCI/104, -40°C to 85°C,  
Endcodes video to the H.264/MPEG-4 AVC

Artikel-Nr. PPPF6050  
H264-HD2000, PCI/104, 0°C to 60°C, Dual HD  
PCI/104 H.264 compression card

Artikel-Nr. PPPF6050-1  
H264-HD2000, PCI/104, -40°C to 85°C, Dual HD  
PCI/104 H.264 compression card

Artikel-Nr. PPPF6069-1  
HDAV2000KLV-Ext., -40°C to 85°C, HD H.264  
Codec with STANAG 4609 KLV

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VCoderH264-HD-SDI



VCoderH264-HD-RGB/STANAG



VCoderH264-HD-HDMI

PC/104 (96 x 90 mm)			
PC/104-Plus (96/99 x 90 mm)			
PCI/104			
PCI/104-Express (96/99 x 90/117mm)			
PCIe/104			
Controller	-	-	-
SD			
HD SATA			
Internal Storage			
Graphic Interface	-	VGA/CRT	DVI, HDMI
Interface COM			
CAN	-	-	-
Interface USB	-	-	-
Interface LAN	-	-	-
Mini PCIe	-	-	-
Mini PCI	-	-	-
Camera	-	-	-
Video Input	Flexible Capture at up to 1.080p60, HD-SDI monitor output	Analog HD from RGB (sync-on-green), Stanag3350, VGA (separate Hsync, Vsync) 1.080p, 1.080i, 720p, 720i; VGA, SVGA, XGA, SXGA	Flexible Capture at up to 1.080p60 from HDMI or DVI source
Resolution	1.080p60		1.080p60
Format NTSC	-	-	-
Format CCIR601-NTSC	-	-	-
Format PAL	-	-	-
Format CCIR-PAL	-	-	-
Format RS-170	-	-	-
Format SECAM	-	-	-
Format RGB	-	x	-
Format YCbCr	-	-	-
Adjustment Software	Sample video recording application in C/C++ source code	Sample video recording application in C/C++ source code	Sample video recording application in C/C++ source code
Processing	-	-	-
Encoding	ITU-T H.264 (ISO/IEC 14496-10), CAVLC and CABAC coding, Supports VBR + CBR, JPEG (ISO/IEC 10918-1), Baseline JPEG with JFIF support, AAC Audio Codec	ITU-T H.264 (ISO/IEC 14496-10), CAVLC and CABAC coding, Supports VBR + CBR, JPEG (ISO/IEC 10918-1), Baseline JPEG with JFIF support	ITU-T H.264 (ISO/IEC 14496-10), CAVLC and CABAC coding, Supports VBR + CBR, JPEG (ISO/IEC 10918-1), Baseline JPEG with JFIF support, AAC Audio Codec
Decoding/Playback	-	-	-
Uncompressed Output	-	-	-
Codec	-	-	-
Performance	-	-	-
Motion Detection	-	-	-
Overlay Features	-	-	-
Video Output	-	-	-
Video Latency	-	-	-
Sound	-	-	-
Audio	Embedded Audio captured from HD-SDI input, Provides Audio / Video synchronisation	-	Embedded Audio captured from HDMI input, Provides Audio / Video synchronisation
SIM Card	-	-	-
GPS	-	-	-
PCI	-	-	-
PCIe	PCIe Gen 2.0	PCIe Gen 2.0	PCIe Gen 2.0
ISA	-	-	-
PC/104	-	-	-
PC/104-Plus	-	-	-
PCI/104	PCI-104 pass-through (option)	PCI-104 pass-through (option)	PCI-104 pass-through (option)
PCI/104-Express	-	-	-
PCIe/104	x	x	x
Operating System	-	-	-
Operating System Support	Drivers for Windows + Linux	Drivers for Windows + Linux	Drivers for Windows + Linux
Input Voltage Nominal	5V	5V	5V
Input Voltage Min/Max	-	-	-
Input Power	< 4W	< 4W	< 4W
Battery	-	-	-
Operating Temperature	0°C to 60°C	0°C to 60°C	0°C to 60°C
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Protection	-	-	-
MTBF	-	-	-
Certification	-	-	-
Dimensions	-	-	-
Weight	-	-	-
Material	-	-	-
Typ. Application	Industrial, Automotive, Marine, Outdoor	Industrial, Automotive, Marine, Outdoor	Industrial, Automotive, Marine, Outdoor

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VCoderH264-HD-SDI



VCoderH264-HD-RGB/STANAG



VCoderH264-HD-HDMI

Bestellinformation	VCoderH264-HD-SDI	VCoderH264-HD-RGB/STANAG	VCoderH264-HD-HDMI
	Artikel-Nr. PPPF6085 VCoderH264-HD-SDI, 0°C to 60°C, H.264 HD-SDI Video Encoder for PCIe/104	Artikel-Nr. PPPF6086 VCoderH264-HD-RGB/STANAG, 0°C to 60°C, H.264 HD-RGB Video Encoder for PCIe/104	Artikel-Nr. PPPF6087 VCoderH264-HD-HDMI, 0°C to 60°C, H.264 HD-HDMI Video Encoder for PCIe/104
	Artikel-Nr. PPPF6085-1 VCoderH264-HD-SDI-EXT, -40°C to 85°C, H.264 HD-SDI Video Encoder for PCIe/104	Artikel-Nr. PPPF6086-1 VCoderH264-HD-RGB/STANAG-EXT, -40°C to 85°C, H.264 HD-RGB Video Encoder for PCIe/104	Artikel-Nr. PPPF6087-1 VCoderH264-HD-HDMI-EXT, -40°C to 85°C, H.264 HD-HDMI Video Encoder for PCIe/104

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H264-XMC-RS343



H264-2SDI-PMC



H264-ULL-PMC

PC/104 (96 x 90 mm)			
PC/104-Plus (96/99 x 90 mm)	-		
PCI/104	-		
PCI/104-Express (96/99 x 90/117mm)	-		
PCIe/104			
Controller	-		-
SD	-		
HD SATA	-		
Internal Storage			
Graphic Interface	-	-	-
Interface COM			
CAN	-		-
Interface USB	-	-	-
Interface LAN	-	-	-
Mini PCIe	-		-
Mini PCI	-		-
Camera	-		-
Video Input	Dual RS-343	2x HD-SDI	2x HD audio
Resolution	1.080i60, 1.080i59, 1.080i50, 1.080p30, 1.080p25, 720p60, 720i60, 720p50, 720i50, 480p60, 576p50	up to 1.080p60	-
Format NTSC	-		-
Format CCIR601-NTSC	-		-
Format PAL	-		-
Format CCIR-PAL	-		-
Format RS-170	-		-
Format SECAM	-		-
Format RGB	-		-
Format YCbCr	-		-
Adjustment Software	Sample video recording application in C/C++ source code; Comprehensive video recording SDK		-
Processing	-		-
Encoding	H.264 Video Encoding: ITU-T H.264, Real-time multi stream H.264 Ultra Low Latency capture; Dual channel encode at up to 1.080p30, Single channel encode at up to 1.080p60	H.264 ISO/IEC 14496-10 baseline and Main Profile up to L4.2; Single or Dual channel encode at up to 1.080p60	-
Decoding/Playback	-		-
Uncompressed Output	-		-
Codec	-		H.264
Performance	-		-
Motion Detection	-		-
Overlay Features	-		-
Video Output	-		-
Video Latency	-		-
Sound	-		-
Audio	-		-
SIM Card	-		-
GPS	-		-
PCI	-		x
PCIe	x		-
ISA	-		-
PC/104	-		-
PC/104-Plus	-		-
PCI/104	-		-
PCI/104-Express	-		-
PCIe/104	-		-
Operating System	-		-
Operating System Support	Drivers for Windows + Linux	Drivers for Windows + Linux	Win, Linux
Input Voltage Nominal	-		5V
Input Voltage Min/Max	-		-
Input Power	-		-
Battery	-		-
Operating Temperature	0°C to 60°C	-	0°C to 60°C
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Protection	-		-
MTBF	-		-
Certification	-	-	-
Dimensions	-		73 x 149 mm
Weight	-		-
Material	-		-
Typ. Application	Industrial, Automotive, Outdoor	-	-



H264-XMC-RS343



H264-2SDI-PMC



H264-ULL-PMC

## Bestellinformation

Artikel-Nr. PPPF6047

H264-XMC-RS343, 0°C to 60°C, XMC PCIe Dual  
Channel RS-343 H.264 Video Encoder

Artikel-Nr. PPPF6047-1

H264-XMC-RS343-Ext, -40°C to 85°C, XMC PCIe  
Dual Channel RS-343 H.264 Video Encoder

Artikel-Nr. PPPF6098

H264-2SDI-PMC-EXT, 2x HD-SDI with KLV, -40°C  
to 85°C, 2-Channel H.264 Video Encoder, PMC  
Mezzanine

Artikel-Nr. PPPF6052

H264-ULL-PMC, PICMG, 0°C to 60°C, Dual  
Channel PMC Mezzanine HD H.264 encoder

Artikel-Nr. PPPF6052-1

H264-ULL-PMC, PICMG, -40°C to 85°C, Dual  
Channel PMC Mezzanine HD H.264 encoder

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H264-PMC8

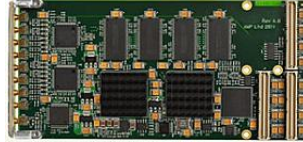


microH264-D4



microMPEG4-D4

PC/104 (96 x 90 mm)	-	-	-
PC/104-Plus (96/99 x 90 mm)	-	-	-
PCI/104	-	-	-
PCI/104-Express (96/99 x 90/117mm)	-	-	-
PCIe/104	-	-	-
Controller	-	-	-
SD	-	-	-
HD SATA	-	-	-
Internal Storage	-	-	-
Graphic Interface	-	-	-
Interface COM	-	-	-
CAN	-	-	-
Interface USB	-	-	-
Interface LAN	-	-	-
Mini PCIe	-	-	-
Mini PCI	-	1x	1x
Camera	-	-	-
Video Input	x	4x analog NTSC/PAL	4x analog NTSC/PAL
Resolution	-	-	-
Format NTSC	NTSC-M, -N, -J, (4.43)	-M, -N, -J, (4.43)	-M, -N, -J, (4.43)
Format CCIR601-NTSC	x	x	x
Format PAL	PAL-B, G, N, D, H, I, M, NC, 60	-B, -G, -N, -D, -H, -I, -M, -NC, -60	-B, -G, -N, -D, -H, -I, -M, -NC, -60
Format CCIR-PAL	x	x	x
Format RS-170	x	x	x
Format SECAM	-	-	-
Format RGB	-	-	-
Format YCbCr	-	-	-
Adjustment Software	-	x	x
Processing	-	-	-
Encoding	ITU-T H.264 (ISO/IEC 14496-10, Baseline profile, level 3) M-JPEG Video Encoding (optional) 8 x NTSC 4CIF (704 x 480) at 60fps 8 x PAL 4CIF (704 x 576) at 25fps	x	x
Decoding/Playback	Real-time H.264 Video Decoding Playback to Composite PAL/NTSC output (optional)	x	x
Uncompressed Output	-	x	x
Codec	-	-	-
Performance	-	-	-
Motion Detection	-	330 NTSC or 396 PAL	330 NTSC or 396 PAL
Overlay Features	-	x	x
Video Output	-	-	-
Video Latency	-	-	-
Sound	-	G.723	G.723
Audio	8 x mono input Provides Audio/Video Synchronisation	4x	4x
SIM Card	-	-	-
GPS	-	-	-
PCI	-	-	-
PCIe	-	-	-
ISA	-	-	-
PC/104	-	-	-
PC/104-Plus	-	-	-
PCI/104	-	-	-
PCI/104-Express	-	-	-
PCIe/104	-	-	-
Operating System	-	-	-
Operating System Support	Windows-XP, Linux	Windows XP, Linux	Windows XP, Linux
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	-	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	0°C to 60°C	0°C to 60°C	0°C to 60°C
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C (optional)	-40°C to 85°C (optional)
Protection	-	-	-
MTBF	-	-	-
Certification	-	-	-
Dimensions	-	-	-
Weight	-	-	-
Material	-	-	-
Typ. Application	-	-	-



H264-PMC8



microH264-D4



microMPEG4-D4

Bestellinformation

Artikel-Nr. PPPF6031  
H264-PMC8, PMC Mezzanine card, 0°C to 60°C, 8  
channel H.264 Codec on PMC

Artikel-Nr. PPPF6031-1  
H264-PMC8-EXT, PMC Mezzanine card, -40°C to  
85°C, 8 channel H.264 Codec on PMC

Artikel-Nr. PPPF6024  
microH264-D4, Mini PCI Board, 0°C to 60°C,  
4-channel, full frame rate, H.264 video encoder

Artikel-Nr. PPPF6024-1  
microH264-D4-Ext., Mini PCI Board, -40°C to  
85°C, 4-channel, full frame rate, H.264 video  
encoder

Artikel-Nr. PPPF6023  
microMPEG4-D4, Mini PCI Board, 0°C to 60°C,  
4-channel, full frame rate, MPEG-4 video encoder

Artikel-Nr. PPPF6023-1  
microMPEG4-D4-Ext., Mini PCI Board, -40°C to  
85°C, 4-channel, full frame rate, MPEG-4 video  
encoder

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nanoH264-HD-SDI

nanoH264-D4 (4x NTSC/PAL/RS-170)

nanoH264-HD-HDMI

PC/104 (96 x 90 mm)			
PC/104-Plus (96/99 x 90 mm)	-	-	-
PCI/104	-	-	-
PCI/104-Express (96/99 x 90/117mm)	-	-	-
PCIe/104			
Controller	-	-	-
SD	-	-	-
HD SATA	-	-	-
Internal Storage			
Graphic Interface	-	Preview to composite PAL / NTSC output Composite/CVBS	-
Interface COM			
CAN	-	-	-
Interface USB	-	-	-
Interface LAN	-	-	-
Mini PCIe	x	x	x
Mini PCI	-	-	-
Camera	-	-	-
Video Input	HD-SDI	Up to 4 concurrent composite PAL / NTSC / RS-170 video inputs; Four 10-bit Analog-to-Digital converters	HDMI / DVI
Resolution	Up to 1.080p60	4x NTSC D1 (720 x 480) at 30fps, 4x PAL D1 (720 x 576) at 25fps	Up to 1.080p30
Format NTSC	-	NTSC-M, NTSC-N, NTSC-J, NTSC (4.43)	-
Format CCIR601-NTSC	-	Standard CCIR601-NTSC, CCIR-PAL	-
Format PAL	-	PAL-B, G, N, PAL-D, PAL-H, PAL-I, PAL-M, PAL-NC, PAL-60	-
Format CCIR-PAL	-	-	-
Format RS-170	-	x	-
Format SECAM	-	-	-
Format RGB	-	-	-
Format YCbCr	-	-	-
Adjustment Software	Sample video recording application in C/C++ source code	Sample video recording application in C/C++ source code	Sample video recording application in C/C++ source code
Processing	-	-	-
Encoding	H.264 Video Encoding: ITU-T H.264, CAVLC and CABAC coding, Supports VBR + CBR; JPEG Encoder with JFIF support	H.264 Video Encoding: ITU-T H.264, Supports I and P Frame Compression, Supports VBR + CBR; JPEG Encoder with JFIF support	H.264 Video Encoding: ITU-T H.264, CAVLC and CABAC coding, Supports VBR + CBR; JPEG Encoder with JFIF support
Decoding/Playback	-	-	-
Uncompressed Output	-	-	-
Codec	-	-	-
Performance	-	-	-
Motion Detection	-	-	-
Overlay Features	-	-	-
Video Output	-	-	-
Video Latency	-	-	-
Sound	-	-	-
Audio	Embedded audio captured from HD-SDI input; Provides audio / video synchronisation	4x mono input; Provides Audio / Video synchronisation	Embedded audio captured from HDMI input; Provides audio / video synchronisation
SIM Card	-	-	-
GPS			
PCI	-	-	-
PCIe	Mini PCI-Express	Mini PCI-Express	Mini PCI-Express
ISA	-	-	-
PC/104	-	-	-
PC/104-Plus	-	-	-
PCI/104	-	-	-
PCI/104-Express	-	-	-
PCIe/104	-	-	-
Operating System			
Operating System Support	Drivers for Windows + Linux (other OS by request)	Drivers for Windows + Linux (other OS by request)	Drivers for Windows + Linux (other OS by request)
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	-	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	0°C to 60°C	0°C to 60°C	0°C to 60°C
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Protection	-	-	-
MTBF	-	-	-
Certification	-	-	-
Dimensions	-	-	-
Weight	-	-	-
Material	-	-	-
Typ. Application	Industrial, Automotive, Outdoor	Industrial, Automotive, Outdoor	Industrial, Automotive, Outdoor

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H.264/MPEG-4 Codecs  
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nanoH264-HD-SDI



nanoH264-D4 (4x NTSC/PAL/RS-170)



nanoH264-HD-HDMI

## Bestellinformation

Artikel-Nr. PPPF6045  
nanoH264-HD-SDI, 0°C to 60°C, HD-SDI H.264  
Video Encoder for miniPCI-express

Artikel-Nr. PPPF6045-1  
nanoH264-HD-SDI-EXT, -40°C to 85°C, HD-SDI  
H.264 Video Encoder for miniPCI-express

Artikel-Nr. PPPF6046  
nanoH264-D4, 4x NTSC / PAL / RS-170, 0°C to  
60°C, 4 Channel H.264 Video Encoder for  
miniPCI-express

Artikel-Nr. PPPnaF6046-1  
nanoH264-D4-Ext, 4x NTSC / PAL / RS-170,  
-40°C to 85°C, 4 Channel H.264 Video Encoder for  
miniPCI-express

Artikel-Nr. PPPF6088  
nanoH264-HD-HDMI, 0°C to 60°C, HDMI / DVI  
H.264 Video Encoder for miniPCI-express

Artikel-Nr. PPPF6088-1  
nanoH264-HD-HDMI-EXT, -40°C to 85°C, HDMI /  
DVI H.264 Video Encoder for miniPCI-express

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nanoH264-HD-RGB/STANAG

H264-cPCI8

H264-cPCI4

PC/104 (96 x 90 mm)			-
PC/104-Plus (96/99 x 90 mm)	-		-
PCI/104	-		CompactPCI
PCI/104-Express (96/99 x 90/117mm)	-		-
PCIe/104			-
Controller	-		-
SD	-		-
HD SATA	-		-
Internal Storage			
Graphic Interface	-	-	VGA/CRT
Interface COM			
CAN	-		-
Interface USB	-	-	-
Interface LAN	-	-	-
Mini PCIe	x	-	
Mini PCI	-	-	
Camera	-	-	-
Video Input	Analog HD: RGB (sync-on-green), Stanag3350, VGA (separate Hsync, Vsync)	8 x independent composite NTSC or PAL	4 channels analog SD composite video inputs
Resolution	1.080p, 1.080i, 720p, 720i; VGA, SVGA, XGA, SXGA	-	-
Format NTSC	-	NTSC-M, -N, -J, (4.43)	x
Format CCIR601-NTSC	-	x	x
Format PAL	-	PAL-B, -G, -N, -D, -H, -I, -M, -NC, -60	x
Format CCIR-PAL	-	x	-
Format RS-170	-	x	x
Format SECAM	-	-	-
Format RGB	-	-	-
Format YCbCr	-	-	-
Adjustment Software	Sample video recording application in C/C++ source code	-	-
Processing			
Encoding	H.264 Video Encoding: ITU-T H.264, CAVLC and CABAC coding, Supports VBR + CBR; JPEG Encoder with JFIF support	ITU-T H.264 (ISO/IEC 14496-10, Baseline profile, level 3) M-JPEG Video Encoding (optional) 8 x NTSC 4CIF (704 x 480) at 30fps 8 x PAL 4CIF (704 x 576) at 25fps	M-JPEG Video Encoding (optional)
Decoding/Playback	-	Real-Time H.264 Video Decoding Playback to Composite PAL/NTSC output (optional)	Real-time H.264 Video Decoding
Uncompressed Output	-	-	-
Codec	-	-	-
Performance	-	-	-
Motion Detection	-	330 (NTSC) or 396 (PAL) detection blocks	-
Overlay Features	-	-	-
Video Output	-	-	-
Video Latency	-	-	-
Sound	-	-	-
Audio	Embedded audio captured from HDMI input; Provides audio / video synchronisation	8 x mono input Provides Audio/Video Synchronisation	-
SIM Card	-	-	-
GPS	-	-	-
PCI	-	CompactPCI	CompactPCI
PCIe	Mini PCI-Express		-
ISA	-		-
PC/104	-		-
PC/104-Plus	-		-
PCI/104	-		-
PCI/104-Express	-		-
PCIe/104	-		-
Operating System			
Operating System Support	Drivers for Windows + Linux (other OS by request)	Windows-XP, Linux	Windows, Linux
Input Voltage Nominal	-		3.3V and 5V
Input Voltage Min/Max	-		-
Input Power	-		-
Battery	-		-
Operating Temperature	0°C to 60°C	0°C to 60°C	-
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Protection	-	-	-
MTBF	-	-	-
Certification	-	-	-
Dimensions	-		-
Weight	-		-
Material	-		-
Typ. Application	Industrial, Automotive, Outdoor	-	-

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nanoH264-HD-RGB/STANAG



H264-cPCI8



H264-cPCI4

Bestellinformation			
	Artikel-Nr. PPPF6089 nanoH264-HD-RGB/STANAG, 0°C to 60°C, HD-RGB H.264 Video Encoder for miniPCI-express	Artikel-Nr. PPPF6029 H264-cPCI8, CompactPCI Board, 0°C to 60°C, 8 Channel H.264 Codec for CompactPCI	Artikel-Nr. PPPF6070-1 H264-cPCI4-EXT, -40°C to 85°C, 4 Channel H.264 Codec for CompactPCI
	Artikel-Nr. PPPF6089-1 nanoH264-HD-RGB/STANAG-EXT, -40°C to 85°C, HD-RGB H.264 Video Encoder for miniPCI-express	Artikel-Nr. PPPF6029-1 H264-cPCI8-EXT, CompactPCI Board, -40°C to 85°C, 8 Channel H.264 Codec for CompactPCI	

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H264-ULL-cPCI



H264-ULL-RS343



HDCorder-SDI

PC/104 (96 x 90 mm)	-	-	-
PC/104-Plus (96/99 x 90 mm)	-	-	-
PCI/104	-	CompactPCI	CompactPCI
PCI/104-Express (96/99 x 90/117mm)	-	-	-
PCle/104	-	-	-
Controller	-	-	-
SD	-	-	-
HD SATA	-	-	-
Internal Storage	-	-	On-board redundant storage up to 16GB (option)
Graphic Interface	-	VGA/CRT	VGA/CRT
Interface COM	-	-	-
CAN	-	-	-
Interface USB	-	-	-
Interface LAN	-	-	-
Mini PCIe	-	-	-
Mini PCI	-	-	-
Camera	-	-	-
Video Input	2x HD audio	Dual RS-343 supporting up to 1.080p60; Flexible capture resolutions, 16x16 pixel granularity / Standard resolutions supported: 1.080i60, 1.080i59, 1.080i50, 1.080p30, 1.080p25, 720p60, 720i60, 720p50, 720i50, 480p60, 576p50 / PAL, STANAG-B, NTSC, STANAG-C / UXGA, WSXGA+, SXGA, XGA, SVGA, VGA	Flexible capture at up to 1.080p30; HD-SDI monitor output
Resolution	-	-	-
Format NTSC	-	-	-
Format CCIR601-NTSC	-	-	-
Format PAL	-	-	-
Format CCIR-PAL	-	-	-
Format RS-170	-	-	-
Format SECAM	-	-	-
Format RGB	-	-	-
Format YCbCr	-	-	-
Adjustment Software	-	-	-
Processing	-	-	-
Encoding	-	H.264: ITU-T H.264 (ISO / IEC 14496-10), Real-time multi stream H.264 ULL / Dual channel encode at up to 1.080p30 / Single channel encode at up to 1.080p60 / CBR + VBR	H.264: ITU-T H.264 (ISO/IEC 14496-10), up to 1.080p30 encode, CAVLC and CABAC coding, VBR, CBR; JPEG Encoding
Decoding/Playback	-	-	-
Uncompressed Output	-	-	-
Codec	H.264	-	-
Performance	-	-	-
Motion Detection	-	-	-
Overlay Features	-	-	-
Video Output	-	-	-
Video Latency	-	-	-
Sound	-	-	-
Audio	-	-	Embedded audio captured from HD-SDI input, Provides audio / video synchronisation
SIM Card	-	-	-
GPS	-	-	-
PCI	x	CompactPCI-Serial	CompactPCI-Serial
PCle	-	-	-
ISA	-	-	-
PC/104	-	-	-
PC/104-Plus	-	-	-
PCI/104	-	-	-
PCI/104-Express	-	-	-
PCle/104	-	-	-
Operating System	-	-	-
Operating System Support	Win, Linux, QNX	Drivers for Windows + Linux	-
Input Voltage Nominal	3.3V, 5V	3.3V and 5V	3.3V and 5V
Input Voltage Min/Max	-	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	0°C to 60°C	-	-
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Protection	-	-	-
MTBF	-	-	-
Certification	-	-	-
Dimensions	100x 160 mm	-	-
Weight	-	-	-
Material	-	-	-
Typ. Application	-	-	-



H264-ULL-cPCI



H264-ULL-RS343



HDCorder-SDI

Bestellinformation

Artikel-Nr. PPPF6051  
H264-ULL-cPCI, CompactPCI, 0°C to 60°C, Dual  
channel 3U CompactPCI HD H.264 Encoder

Artikel-Nr. PPPF6051-1  
H264-ULL-cPCI, CompactPCI, -40°C to 85°C, Dual  
channel 3U CompactPCI HD H.264 Encoder

Artikel-Nr. PPPF6078-1  
H264-ULL-RS343-EXT, -40°C to 85°C,  
CompactPCI-Serial 2-Ch RS-343 H.264 Video  
Encoder

Artikel-Nr. PPPF6075-1  
HDCorder-SDI-EXT, -40°C to 85°C,  
CompactPCI-Serial HD-SDI H.264 Video Encoder

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HDCorder-HDMI



HDCorder-RGB/STANAG

PC/104 (96 x 90 mm)	-	-
PC/104-Plus (96/99 x 90 mm)	-	-
PCI/104	CompactPCI	CompactPCI
PCI/104-Express (96/99 x 90/117mm)	-	-
PCle/104	-	-
Controller	-	-
SD	-	-
HD SATA	-	-
Internal Storage	On-board redundant storage up to 16GB (option)	On-board redundant storage up to 16GB (option)
Graphic Interface	VGA/CRT	VGA/CRT
Interface COM	-	-
CAN	-	-
Interface USB	-	-
Interface LAN	-	-
Mini PCIe	-	-
Mini PCI	-	-
Camera	-	-
Video Input	Flexible capture at up to 1.080p30	2x HD analog video input ports / Analog HD from RGSB, Stanag3350, VGA; Video capture resolutions 1.080p, 1.080i, 720p, 720i / VGA, SVGA, XGA, SXGA;
Resolution	-	-
Format NTSC	-	-
Format CCIR601-NTSC	-	-
Format PAL	-	-
Format CCIR-PAL	-	-
Format RS-170	-	-
Format SECAM	-	-
Format RGB	-	-
Format YCbCr	-	-
Adjustment Software	-	-
Processing	-	-
Encoding	H.264: ITU-T H.264 (ISO/IEC 14496-10), up to 1.080p30 encode, CAVLC and CABAC coding, VBR, CBR; JPEG Encoding	H.264: ITU-T H.264 (ISO/IEC 14496-10), up to 1.080p30 encode, CAVLC and CABAC coding, VBR, CBR; JPEG Encoding
Decoding/Playback	-	-
Uncompressed Output	-	-
Codec	-	-
Performance	-	-
Motion Detection	-	-
Overlay Features	-	-
Video Output	-	-
Video Latency	-	-
Sound	-	-
Audio	Embedded audio captured from HDMI input, Provides audio / video synchronisation	-
SIM Card	-	-
GPS	-	-
PCI	CompactPCI-Serial	CompactPCI-Serial
PCle	-	-
ISA	-	-
PC/104	-	-
PC/104-Plus	-	-
PCI/104	-	-
PCI/104-Express	-	-
PCle/104	-	-
Operating System	-	-
Operating System Support	-	-
Input Voltage Nominal	3.3V and 5V	3.3V and 5V
Input Voltage Min/Max	-	-
Input Power	-	-
Battery	-	-
Operating Temperature	-	-
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C
Protection	-	-
MTBF	-	-
Certification	-	-
Dimensions	-	-
Weight	-	-
Material	-	-
Typ. Application	-	-

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HDCorder-HDMI



HDCorder-RGB/STANAG

## Bestellinformation

Artikel-Nr. PPPF6076-1  
HDCorder-HDMI-EXT, -40°C to 85°C,  
CompactPCI-Serial DVI/HDMI H.264 Video  
Encoder

Artikel-Nr. PPPF6077-1  
HDCorder-RGB/STANAG-EXT, -40°C to 85°C,  
CompactPCI-Serial RGB H.264 Video Encoder  
Encoder

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HDGrabber-DVI



AVC8000S



PCIe Video/Audio Capture Card

PC/104 (96 x 90 mm)			
PC/104-Plus (96/99 x 90 mm)			
PCI/104			
PCI/104-Express (96/99 x 90/117mm)			
PCIe/104			
Controller	-	-	-
SD	-	-	-
HD SATA	-	-	-
Graphic Interface	DVI, HDMI	-	DVI, HDMI, S-Video, Composite/CVBS, YpbPr, SDI
Interface COM			
CAN	-	-	-
Interface USB	-	-	-
Interface LAN	-	-	-
Mini PCIe	-	-	-
Mini PCI	-	-	-
Camera	-	-	-
Video Input	1x Digital DVI input (DVI/HDMI)	NTSC-M, NTSC-Japan, NTSC (4.43), RS-170 PAL-B, G, N, PAL-D, PAL-H, PAL-I, PAL-M, PAL-CN, PAL-60	6x Video Input: HDMI, DVI-I, YPbPr, SDI, CVBS and S-Video
Resolution	1080p @ 10fps max. 720p @ 20fps max. 480p @ 60fps max. 1024x768 @25fps	-	Up to 1.920 x 1.080p @ 60fps
Format NTSC	-	x	-
Format CCIR601-NTSC	-	-	-
Format PAL	-	x	-
Format CCIR-PAL	-	-	-
Format RS-170	-	x	-
Format SECAM	-	-	-
Format RGB	-	RGB555, RGB565	RGB24, RGB32
Format YCbCr	-	YCbCr 4:2:2, YCbCr 4:1:1	-
Adjustment Software	-	-	-
Processing	-	Arbitrary sizing, cropping, scaling of each video channel	-
Encoding	-	-	H.264
Decoding/Playback	-	-	-
Uncompressed Output	-	-	-
Codec	-	-	Hardware Compression
Performance	-	-	-
Motion Detection	-	-	-
Overlay Features	-	-	-
Video Output	-	-	-
Video Latency	Resolution dependent: 720p60 &lt;50ms, 1080p30 &lt;100ms	&lt;40ms	-
Sound	-	-	-
Audio	-	-	1x HDMI Embedded Audio, 1x SDI Embedded Audio, A Pair of RCA Audio Connector (Audio L/R Through YPbPr cable)
SIM Card	-	-	-
GPS	-	-	-
PCI	-	-	-
PCIe	-	1x PCIe x1	PCIe x1 (Gen1)
ISA	-	-	-
PC/104	-	-	-
PC/104-Plus	-	-	-
PCI/104	x	-	-
PCI/104-Express	-	-	-
PCIe/104	-	-	-
Operating System	-	-	-
Operating System Support	Driver for Windows XP, Linux, Sample video overlay and capture application in C/C++ source code	Drivers for Windows XP, Linux	Windows 10 / 8.1 / 8 / 7 / Vista / XP, Linux 2.6.14 or higher
Input Voltage Nominal	5V	3.3V	-
Input Voltage Min/Max	-	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	0°C to 60°C	0°C to 60°C	-
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C (Optional)	-
Protection	-	-	-
MTBF	-	-	-
Certification	-	-	-
Dimensions	-	-	93,02 x 101,03 mm
Weight	-	-	-
Material	-	-	-
Typ. Application	-	-	-

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Video Capture & Frame Grabbing  
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## Video Capture & Frame Grabbing



**HDGrabber-DVI**



**AVC8000S**



**PCIe Video/Audio Capture Card**

### Bestellinformation

Artikel-Nr. PPPF6033  
HDGrabber-DVI, Video Capture and Overlay  
Controller, 0°C to 60C

Artikel-Nr. PPPF6033-1  
HDGrabber-DVI-Ext, Video Capture and Overlay  
Controller, -40C to +85C

Artikel-Nr. PPPF6036  
AVC8000S, PCI-Express, 0°C to 60°C, 8-chan.  
PAL/NTSC/RS170 Frame Grabber+Video Overlay

Artikel-Nr. PPPF6036-1  
AVC8000S-EXT, PCI-Express, -40°C to 85°C,  
8-chan. PAL/NTSC/RS170 Frame Grabber+Video  
Overlay

Artikel-Nr. PPPF6039  
PCIe Video/Audio Capture Card, H.264 Hardware  
compression, HDMI, DVI-I, YPbPr, SDI, CVBS,  
S-Video, 2x Audio

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HDGrabberX-HDMI

HDGrabberX-SDI

HDGrabberX-RGB/STANAG

PC/104 (96 x 90 mm)			
PC/104-Plus (96/99 x 90 mm)			
PCI/104			
PCI/104-Express (96/99 x 90/117mm)			
PCIe/104			
Controller	-	-	-
SD			
HD SATA			
Graphic Interface	DVI, HDMI	SDI	-
Interface COM			
CAN			
Interface USB	-	-	-
Interface LAN	-	-	-
Mini PCIe	-	-	-
Mini PCI	-	-	-
Camera	-	-	-
Video Input	Digital HDMI / DVI	Digital HD-SDI	HD Analog RGB / Stanag3350
Resolution	720p25, 720p30; 720p50, 720p60; 1.080p25, 1.080p30; 1.080i50, 1.080i60	720p25, 720p30; 720p50, 720p60; 1.080p25, 1.080p30; 1.080i50, 1.080i60	720p25, 720p30; 720p50, 720p60; 1.080p25, 1.080p30; 1.080i50, 1.080i60
Format NTSC	-	-	-
Format CCIR601-NTSC	-	-	-
Format PAL	-	-	-
Format CCIR-PAL	-	-	-
Format RS-170	-	-	-
Format SECAM	-	-	-
Format RGB	-	-	x
Format YCbCr	4:2:0	4:2:0	4:2:0
Adjustment Software	Sample video overlay + capture application in C/C++ source code	Sample video overlay + capture application in C/C++ source code	Sample video overlay + capture application in C/C++ source code
Processing	-	-	-
Encoding	-	-	-
Decoding/Playback	-	-	-
Uncompressed Output	-	-	-
Codec	-	-	-
Performance	-	-	-
Motion Detection	-	-	-
Overlay Features	-	-	-
Video Output			
Video Latency	Resolution dependent: 720p60 &lt;50ms, 1080p30 &lt;100ms	Resolution dependent: 720p60 &lt;50ms, 1080p30 &lt;100ms	Resolution dependent: 720p60 &lt;50ms, 1080p30 &lt;100ms
Sound	-	-	-
Audio	-	-	-
SIM Card	-	-	-
GPS			
PCI	-	-	-
PCIe	-	-	-
ISA	-	-	-
PC/104	-	-	-
PC/104-Plus	-	-	-
PCI/104	PCI-104 pass-through (option)	PCI-104 pass-through (option)	PCI-104 pass-through (option)
PCI/104-Express	-	-	-
PCIe/104	x	x	x
Operating System	-	-	-
Operating System Support	Drivers for Windows + Linux	Drivers for Windows + Linux	Drivers for Windows + Linux
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	-	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	0°C to 60°C	0°C to 60°C	0°C to 60°C
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Protection	-	-	-
MTBF	-	-	-
Certification	-	-	-
Dimensions	-	-	-
Weight	-	-	-
Material	-	-	-
Typ. Application	Industrial, Automotive, Outdoor	Industrial, Automotive, Outdoor	Industrial, Automotive, Outdoor

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## Video Capture & Frame Grabbing



**HDGrabberX-HDMI**



**HDGrabberX-SDI**



**HDGrabberX-RGB/STANAG**

Bestellinformation	HDGrabberX-HDMI	HDGrabberX-SDI	HDGrabberX-RGB/STANAG
	Artikel-Nr. PPPF6081 HDGrabberX-HDMI, 0°C to 60°C, HDMI/DVI Video Capture & Frame Grabber PCIe/104	Artikel-Nr. PPPF6082 HDGrabberX-SDI, 0°C to 60°C, HD-SDI Video Capture & Frame Grabber PCIe/104	Artikel-Nr. PPPF6083 HDGrabberX-RGB/STANAG, 0°C to 60°C, RGB Video Capture & Frame Grabber PCIe/104
	Artikel-Nr. PPPF6081-1 HDGrabberX-HDMI-EXT, -40°C to 85°C, HDMI/DVI Video Capture & Frame Grabber PCIe/104	Artikel-Nr. PPPF6082-1 HDGrabberX-SDI-EXT, -40°C to 85°C, HD-SDI Video Capture & Frame Grabber PCIe/104	Artikel-Nr. PPPF6083-1 HDGrabberX-RGB/STANAG-EXT, -40°C to 85°C, RGB Video Capture & Frame Grabber PCIe/104

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AVC2000



AVC4000



Quad Grabber

PC/104 (96 x 90 mm)			
PC/104-Plus (96/99 x 90 mm)			
PCI/104			
PCI/104-Express (96/99 x 90/117mm)			
PCIe/104			
Controller	-	-	-
SD			
HD SATA			
Graphic Interface	1x S-Video, 2x Composite/CVBS	8x Composite/CVBS	4x Composite/CVBS
Interface COM			
CAN	-	-	-
Interface USB	-	-	-
Interface LAN	-	-	-
Mini PCIe	-	-	-
Mini PCI	-	-	-
Camera	-	-	-
Video Input	1x analog NTSC/PAL (from 3)	4x analog NTSC/PAL (from 8)	4x analog NTSC/PAL
Resolution	-	-	-
Format NTSC	-	-	-
Format CCIR601-NTSC	-	-	-
Format PAL	-	-	-
Format CCIR-PAL	-	-	-
Format RS-170	-	-	-
Format SECAM	-	-	-
Format RGB	-	-	-
Format YCbCr	-	-	-
Adjustment Software	-	-	-
Processing	-	-	-
Encoding	-	-	-
Decoding/Playback	-	-	-
Uncompressed Output	-	-	-
Codec	-	-	-
Performance	x1 full frame rate @ D1	x1 full frame rate @ D1 x4 full frame rate @ CIF	x4 full frame rate @ D1
Motion Detection	-	-	-
Overlay Features	Overlay added on host platform	High speed alpha-blended overlay	Overlay added on host platform
Video Output	-	-	-
Video Latency	-	-	-
Sound	-	-	-
Audio	Mic, FM/TV (option)	-	4 Mono Audio inputs
SIM Card	-	-	-
GPS	-	-	-
PCI	x	x	x
PCIe	-	-	-
ISA	x	x	x
PC/104	-	-	-
PC/104-Plus	x	x	x
PCI/104	-	-	-
PCI/104-Express	-	-	-
PCIe/104	-	-	-
Operating System			
Operating System Support	WIN, Linux	WIN, Linux, QNX	WIN, Linux, QNX
Input Voltage Nominal	5V	5V	5V
Input Voltage Min/Max	-	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	0°C to 60°C	0°C to 60°C	0°C to 60°C
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Protection	-	-	-
MTBF	-	-	-
Certification	-	-	-
Dimensions	90 x 96 x 17 mm	90 x 96 mm	90 x 96 x 17 mm
Weight	-	-	-
Material	-	-	-
Typ. Application	-	-	-

# Video Capture & Frame Grabbing



**AVC2000**



**AVC4000**



**Quad Grabber**

**Bestellinformation**

Artikel-Nr. PPPF6013  
AVC2000-V, PC/104+ Board, 0°C to 60°C, Video  
frame grabber  
  
Artikel-Nr. PPPF6013-1  
AVC2000-V-Ext., PC/104+ Board, -40°C to 85°C,  
Video frame grabber

Artikel-Nr. PPPF6010  
AVC4000, PC/104+ Board, 0°C to 60°C, 4-channel  
video frame grabber  
  
Artikel-Nr. PPPF6010-1  
AVC4000-Ext., PC/104+ Board, -40°C to 85°C,  
4-channel video frame grabber

Artikel-Nr. PPPF6011  
QuadGrabber, PC/104+ Board, 0°C to 60°C,  
4-channel,full frame-rate,video frame grabber  
  
Artikel-Nr. PPPF6011-1  
QuadGrabber-Ext., PC/104+ Board, -40°C to 85°C,  
4-channel,full frame-rate,video frame grabber

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AVC8000X



AVC8000XMC



AVC-cPCIs

PC/104 (96 x 90 mm)			
PC/104-Plus (96/99 x 90 mm)		-	
PCI/104		-	
PCI/104-Express (96/99 x 90/117mm)		-	x
PCIe/104			
Controller	-	-	-
SD		-	-
HD SATA		-	-
Graphic Interface	-	(if video preview to host is required) VGA/CRT	VGA/CRT, Up to 8 concurrent composite PAL or NTSC video input channels Composite/CVBS
Interface COM			
CAN	-	-	-
Interface USB	-	-	-
Interface LAN	-	-	-
Mini PCIe	-	-	-
Mini PCI	-	-	-
Camera	-	-	-
Video Input	8x analog NTSC/PAL		NTSC-M, NTSC-Japan, NTSC (4.43), RS-170; PAL-B, -G, -N, -D, -H, -I, -M, -CN, -60; SECAM
Resolution	-	-	-
Format NTSC	-	NTSC-M, NTSC-Japan, NTSC (4.43)	x
Format CCIR601-NTSC	-	-	-
Format PAL	-	PAL-B, G, N, PAL-D, PAL-H, PAL-I, PAL-M, PAL-CN, PAL-60	x
Format CCIR-PAL	-	-	-
Format RS-170	-	x	x
Format SECAM	-	x	x
Format RGB	-	RGB555, RGB565	RGB555, RGB565
Format YCbCr	-	YCbCr 4:2:2, YCbCr 4:1:1	YCbCr 4:2:2, YCbCr 4:1:1
Adjustment Software	-	Sample video overlay + capture application in C/C++ source code	Sharpness, Gamma and noise suppression
Processing	-	-	-
Encoding	-	-	-
Decoding/Playback	-	-	-
Uncompressed Output	-	-	-
Codec	-	-	-
Performance	-	-	-
Motion Detection	-	-	-
Overlay Features	-	-	-
Video Output	-	-	-
Video Latency	<40ms	<40ms	<40ms
Sound	-	-	-
Audio	8x Mono Audio Inputs	-	-
SIM Card	-	-	-
GPS	-	-	-
PCI	-	-	CompactPCI-Serial
PCIe	1x	x	miniPCIe
ISA	-	-	-
PC/104	-	-	-
PC/104-Plus	-	-	-
PCI/104	-	-	-
PCI/104-Express	-	-	-
PCIe/104	-	-	-
Operating System	-		
Operating System Support	-	Drivers for Windows + Linux	Drivers for Windows + Linux
Input Voltage Nominal	5V	-	-
Input Voltage Min/Max	-	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	0°C to 60°C	0°C to 60°C	-
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Protection	-	-	-
MTBF	-	-	-
Certification	-	-	-
Dimensions	-	74 x 149 mm	-
Weight	-	-	-
Material	-	-	-
Typ. Application	-	Industrial, Automotive, Outdoor	-

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## Video Capture & Frame Grabbing



**AVC8000X**



**AVC8000XMC**



**AVC-cPCIs**

### Bestellinformation

Artikel-Nr. PPPF6026  
AVC8000X, PC/104-Express Board, 0°C to 60°C,  
8x D1 Video Framegrabber and overlay controller

Artikel-Nr. PPPF6026-1  
AVC8000X-EXT, PC/104-Express Board, -40°C to  
85°C, 8x D1 Video Framegrabber and overlay  
controller

Artikel-Nr. PPPF6038  
AVC8000XMC, 0°C to 60°C, 8x D1 Video Frame  
Grabber XMC PCI-Express card

Artikel-Nr. PPPF6038-1  
AVC8000XMC-EXT, -40°C to 85°C, 8x D1 Video  
Frame Grabber XMC PCI-Express card

Artikel-Nr. PPPF6037-1  
AVC-cPCIs-EXT, -40°C to 85°C, 8x D1 Video  
Frame Grabber for CompactPCI-Serial

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microGrabber



Mini PCIe SDI Video Framegrabber



Mini PCIe HDMI / DVI-I / YPbPr Video Framegrabber

PC/104 (96 x 90 mm)	-		
PC/104-Plus (96/99 x 90 mm)	-		
PCI/104	-		
PCI/104-Express (96/99 x 90/117mm)	-		
PCle/104	-		
Controller	-		
SD	-		
HD SATA	-		
Graphic Interface	-	SDI	1x (via DVI-I) VGA/CRT, 1x (via DVI-I) DVI, HDMI, 1x YpbPr
Interface COM	-		
CAN	-		
Interface USB	-	-	-
Interface LAN	-	-	-
Mini PCIe	-	Minicard (PCIe x1)	Minicard (PCIe x1)
Mini PCI	1x		
Camera	-	-	-
Video Input	4x analog NTSC/PAL	1x SDI	1x HDMI, 1x DVI-I, 1x YPbPr (through on-Board Wafer connection)
Resolution	-	Max. 1.920 x 1.080p @ 60/50fps IN -&gt; 1.920 x 1.080p @ 60/50fps OUT	1.920 x 1.200p @ 60/50fps IN -&gt; 1.920 x 1.200p @ 60/50fps OUT
Format NTSC	-M, -Japan, (4.43)	-	-
Format CCIR601-NTSC	-	-	-
Format PAL	-B, -G, -N, -D, -H, -I, -M, -NC, -60	-	-
Format CCIR-PAL	-	-	-
Format RS-170	x	-	-
Format SECAM	x	-	-
Format RGB	x	RGB24, RGB32	RGB24, RGB32
Format YCbCr	x	-	-
Adjustment Software	x	Support API: DirectShow, V4L2, FFmpeg, Gstreamer	Support API: DirectShow, V4L2, FFmpeg, Gstreamer
Processing	x	-	-
Encoding	-	-	-
Decoding/Playback	-	-	-
Uncompressed Output	-	-	-
Codec	-	-	-
Performance	-	-	-
Motion Detection	-	-	-
Overlay Features	-	-	-
Video Output	-	-	-
Video Latency	-	-	-
Sound	8-bit PCM		
Audio	4x	1x SDI Embedded Audio, Audio L/R (through Wafer connector)	1x HDMI Embedded Audio, Audio L/R (through Wafer connector)
SIM Card	-		
GPS	-		
PCI	-		
PCle	-		
ISA	-		
PC/104	-		
PC/104-Plus	-		
PCI/104	-		
PCI/104-Express	-		
PCle/104	-		
Operating System			
Operating System Support	Windows XP, Linux, QNX	Windows 10 / 8.1 / 8 / 7 / Vista / XP, Linux 2.6.14 or higher (32-bit and 64-bit)	Windows 10 / 8.1 / 8 / 7, Linux 2.6.14 or higher (32-bit and 64-bit)
Input Voltage Nominal	-		-
Input Voltage Min/Max	-		-
Input Power	-		2,1593W
Battery	-		
Operating Temperature	0°C to 60°C	0°C to 70°C	0°C to 70°C
Extended Operating Temperature	-40°C to 85°C (optional)	-	-
Protection	-	-	-
MTBF	-	-	-
Certification	-	-	-
Dimensions	-	30 x 50,95 (mm)	30 x 50,95 (mm)
Weight	-	-	-
Material	-	-	-
Typ. Application	-	Industrial, Automotive, Marine, Military, Outdoor	Industrial, Automotive, Marine, Military, Outdoor

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## Video Capture & Frame Grabbing



**microGrabber**



**Mini PCIe SDI Video Framegrabber**



**Mini PCIe HDMI / DVI-I / YPbPr Video  
Framegrabber**

### Bestellinformation

Artikel-Nr. PPPF6025  
microGrabber, Mini PCI Board, 0°C to 60°C,  
4-channel, full frame rate, video frame grabber

Artikel-Nr. PPPF6025-1  
microGrabber-Ext, Mini PCI Board, -40°C to 85°C,  
4-channel, full frame rate, video frame grabber

Artikel-Nr. PPPF6095  
Mini PCIe SDI Video Framegrabber, 0°C to 70°C /  
Audio / H.264 Hardware compression

Artikel-Nr. PPPF6096  
Mini PCIe HDMI / DVI-I / YPbPr Video  
Framegrabber, 0°C to 70°C / Audio / H.264  
Hardware compression

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nanoGrabber-HD-SDI

nanoGrabber-HD-HDMI

nanoGrabber-HD-RGB/STANAG

PC/104 (96 x 90 mm)			
PC/104-Plus (96/99 x 90 mm)	-	-	-
PCI/104	-	-	-
PCI/104-Express (96/99 x 90/117mm)	-	-	-
PCIe/104			
Controller	-	-	-
SD	-	-	-
HD SATA	-	-	-
Graphic Interface	(if video preview to host is required) VGA/CRT, SDI	(if video preview to host is required) VGA/CRT, HDMI	(if video preview to host is required) VGA/CRT
Interface COM			
CAN	-	-	-
Interface USB	-	-	-
Interface LAN	-	-	-
Mini PCIe	x	x	x
Mini PCI	-	-	-
Camera	-	-	-
Video Input	Digital HD-SDI	Digital HDMI	Analog video: RGB (Sync on Green), Stanag3350, VGA (separate Hsync, Vsync), 1.080p30, 1.080i60, 720p60, 720i60, VGA, SVGA, XGA, SXGA
Resolution	720p25, 720p30, 720p50, 720p60, 1.080p25, 1.080p30, 1.080i50, 1.080i60	720p25, 720p30, 720p50, 720p60, 1.080p25, 1.080p30, 1.080i50, 1.080i60	
Format NTSC	-	-	-
Format CCIR601-NTSC	-	-	-
Format PAL	-	-	-
Format CCIR-PAL	-	-	-
Format RS-170	-	-	-
Format SECAM	-	-	-
Format RGB	-	-	x
Format YCbCr	YCbCr 4:2:2, YCbCr 4:2:0	YCbCr 4:2:2, YCbCr 4:2:0	YCbCr 4:2:2, YCbCr 4:2:0
Adjustment Software	Sample video overlay + capture application in C/C++ source code	Sample video overlay + capture application in C/C++ source code	Sample video overlay + capture application in C/C++ source code
Processing	-	-	-
Encoding	-	-	-
Decoding/Playback	-	-	-
Uncompressed Output	-	-	-
Codec	-	-	-
Performance	-	-	-
Motion Detection	-	-	-
Overlay Features	-	-	-
Video Output	-	-	-
Video Latency	Resolution dependent: 720p60 &lt;50ms, 1080p30 &lt;100ms	Resolution dependent: 720p60 &lt;50ms, 1080p30 &lt;100ms	Resolution dependent: 720p60 &lt;50ms, 1080p30 &lt;100ms
Sound	-	-	-
Audio	-	-	-
SIM Card	-	-	-
GPS	-	-	-
PCI	-	-	-
PCIe	Mini PCI-Express	Mini PCI-Express	Mini PCI-Express
ISA	-	-	-
PC/104	-	-	-
PC/104-Plus	-	-	-
PCI/104	-	-	-
PCI/104-Express	-	-	-
PCIe/104	-	-	-
Operating System	-	-	-
Operating System Support	Drivers for Windows + Linux	Drivers for Windows + Linux	Drivers for Windows + Linux
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	-	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	0°C to 60°C	0°C to 60°C	0°C to 60°C
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Protection	-	-	-
MTBF	-	-	-
Certification	-	-	-
Dimensions	-	-	-
Weight	-	-	-
Material	-	-	-
Typ. Application	Industrial, Automotive, Outdoor	Industrial, Automotive, Outdoor	Industrial, Automotive, Outdoor

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Video Capture & Frame Grabbing  
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## Video Capture & Frame Grabbing



**nanoGrabber-HD-SDI**



**nanoGrabber-HD-HDMI**



**nanoGrabber-HD-RGB/STANAG**

Bestellinformation	nanoGrabber-HD-SDI	nanoGrabber-HD-HDMI	nanoGrabber-HD-RGB/STANAG
	<p>Artikel-Nr. PPPF6042 nanoGrabber-HD-SDI, 0°C to 60°C, HD-SDI Video Frame Grabber for Mini PCI-Express</p> <p>Artikel-Nr. PPPF6042-1 nanoGrabber-HD-SDI-EXT, -40°C to 85°C, HD-SDI Video Frame Grabber for Mini PCI-Express</p>	<p>Artikel-Nr. PPPF6043 nanoGrabber-HD-HDMI, 0°C to 60°C, HD-HDMI Video Frame Grabber for Mini PCI-Express</p> <p>Artikel-Nr. PPPF6043-1 nanoGrabber-HD-HDMI-EXT, -40°C to 85°C, HD-HDMI Video Frame Grabber for Mini PCI-Express</p>	<p>Artikel-Nr. PPPF6044 nanoGrabber-HD-RGB/STANAG, 0°C to 60°C, HD-RGB Video Frame Grabber for Mini PCI-Express</p> <p>Artikel-Nr. PPPF6044-1 nanoGrabber-HD-RGB/STANAG-EXT, -40°C to 85°C, HD-RGB Video Frame Grabber for Mini PCI-Express</p>

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nanoAVC8



AVC8000nano



AVC8000M2

PC/104 (96 x 90 mm)			
PC/104-Plus (96/99 x 90 mm)			
PCI/104			
PCI/104-Express (96/99 x 90/117mm)			
PCIe/104			
Controller			
SD			
HD SATA			
Graphic Interface	-	-	-
Interface COM			
CAN			
Interface USB	-	-	-
Interface LAN	-	-	-
Mini PCIe	x	x	
Mini PCI	-	-	
Camera	-	-	
Video Input	8x Live NTSC/PAL	up to 8x NTSC/PAL	
Resolution	-	-	
Format NTSC	NTSC-M, NTSC-Japan, NTSC (4.43)	-M,-Japan, (4.43)	
Format CCIR601-NTSC	-	-	
Format PAL	PAL-B, G, N, PAL-D, PAL-H, PAL-I, PAL-M, PAL-CN, PAL-60	-B,-G,-N,-D,-H,-I,-M,-CN,-60	
Format CCIR-PAL	-	-	
Format RS-170	-	-	
Format SECAM	x	x	
Format RGB	x	x	
Format YCbCr	x	x	
Adjustment Software	-	-	
Processing	-	-	
Encoding	-	-	
Decoding/Playback	-	-	
Uncompressed Output	-	-	
Codec	-	-	
Performance	-	-	
Motion Detection	-	-	
Overlay Features	-	-	
Video Output	-	-	
Video Latency	<40ms	<40ms	
Sound	-	-	
Audio	4x mono audio input (8-bit PCM)	-	
SIM Card	-	-	
GPS			
PCI			
PCIe			
ISA			
PC/104			
PC/104-Plus			
PCI/104			
PCI/104-Express			
PCIe/104			
Operating System		-	
Operating System Support	Drivers for Windows 10 / 7 / XP and Linux	Drivers for Windows XP, WINDOWS-7, Linux Video overlay and capture application C/C++ source code	
Input Voltage Nominal			
Input Voltage Min/Max			
Input Power			
Battery			
Operating Temperature	-	-	
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	
Protection	-	-	
MTBF	-	-	
Certification	-	-	-
Dimensions			
Weight			
Material			
Typ. Application	-	-	-

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Video Capture & Frame Grabbing  
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## Video Capture & Frame Grabbing



**nanoAVC8**



**AVC8000nano**



**AVC8000M2**

### Bestellinformation

Artikel-Nr. PPPF6090-1  
nanoAVC8-EXT, mini PCIe, -40°C to 85°C,  
8-channel PAL/NTSC Frame Grabber + 4x Audio

Artikel-Nr. PPPF6032-1  
AVC8000nano-EXT, Mini PCIe Board, -40°C to  
85°C, 8-channel PAL/NTSC Frame Grabber

Artikel-Nr. PPPF6200  
AVC8000M2 8-Kanal Video Capture & Overlay  
Controller, 8x Live NTSC/PAL Video Eingänge,  
M.2 3050 A+E Key Modul

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# Video Capture & Frame Grabbing



SC400N4 M2 SDI-W 4-Channel HD-SDI FrameGrabber

SC400N4 M2 TVI 4 CH 1080P30 FrameGrabber Modul

SC400N1 M2 HDV 1 CH AIO 1080P60 FrameGrabber Modul

	SC400N4 M2 SDI-W 4-Channel HD-SDI FrameGrabber	SC400N4 M2 TVI 4 CH 1080P30 FrameGrabber Modul	SC400N1 M2 HDV 1 CH AIO 1080P60 FrameGrabber Modul
PC/104 (96 x 90 mm)			
PC/104-Plus (96/99 x 90 mm)			
PCI/104			
PCI/104-Express (96/99 x 90/117mm)			
PCIe/104			
Controller			
SD			
HD SATA			
Graphic Interface	-	-	-
Interface COM			
CAN			
Interface USB	-	-	-
Interface LAN	-	-	-
Mini PCIe			
Mini PCI			
Camera			
Video Input			
Resolution			
Format NTSC			
Format CCIR601-NTSC			
Format PAL			
Format CCIR-PAL			
Format RS-170			
Format SECAM			
Format RGB			
Format YCbCr			
Adjustment Software			
Processing			
Encoding			
Decoding/Playback			
Uncompressed Output			
Codec			
Performance			
Motion Detection			
Overlay Features			
Video Output			
Video Latency			
Sound			
Audio			
SIM Card			
GPS			
PCI			
PCIe			
ISA			
PC/104			
PC/104-Plus			
PCI/104			
PCI/104-Express			
PCIe/104			
Operating System			
Operating System Support			
Input Voltage Nominal			
Input Voltage Min/Max			
Input Power			
Battery			
Operating Temperature			
Extended Operating Temperature			
Protection			
MTBF			
Certification	-	-	-
Dimensions			
Weight			
Material			
Typ. Application	-	-	-

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**SC400N4 M2 SDI-W 4-Channel HD-SDI FrameGrabber**



**SC400N4 M2 TVI 4 CH 1080P30 FrameGrabber Modul**



**SC400N1 M2 HDV 1 CH AIO 1080P60 FrameGrabber Modul**

## Bestellinformation

Artikel-Nr. PMOF1000  
SC400N4 M2 SDI-W 4-Channel HD-SDI FrameGrabber, Input: 4xSDI 1920x1080p@60/50fps, M.2 (PCIex4), with wide temperature range

Artikel-Nr. PMOF1001-1  
SC400N4 M2 TVI 4 CH 1080P30 TVI / CVI / AHD / CVBS FrameGrabber Modul M.2, Input: 4xTVI 1920x1080p@30/25fps, M.2 (PCIe 2x) Wide Temperature Range -30°C - 70°C

Artikel-Nr. PMOF1001  
SC400N4 M2 TVI 4 CH 1080P30 TVI / CVI / AHD / CVBS FrameGrabber Modul M.2, Input: 4xTVI 1920x1080p@30/25fps, M.2 (PCIe 2x) Commercial Grade Temperature Range 0°C - 60°C

Artikel-Nr. PMOF1002  
SC400N1 M2 HDV 1 CH AIO 1080P60 FrameGrabber Modul M.2, Input: 1xDVI-I, 1xYPbPr, 1xHDMI 1920x1080p@60/50fps, M.2 (PCIe x1) Commercial Grade Temperature Range 0°C - 70°C

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## Stand-Alone Digital Video Recorder



**XStream-HD-EXT-V Ultra Low Latency Video Streamer**

**MultiStream-HD-SD8**

**XStream-SD4**

PC/104 (96 x 90 mm)	x		x
PC/104-Plus (96/99 x 90 mm)	-		-
PCI/104	-		-
PCI/104-Express (96/99 x 90/117mm)	-		-
PCIe/104	-		-
Controller	-		-
SD	-		-
HD SATA	-		SD-Card slot - On-board storage SATA support for external storage
Graphic Interface	DVI, HDMI	-	-
Interface COM			
CAN			
Interface USB	-	-	-
Interface LAN	10/100/1000 BASE-T	-	10/100/1000 BASE-T
Mini PCIe	-		-
Camera	-		-
Video Input	-		4x PAL / NTSC / RS-170, 4x 10bit Analog-to-Digital converters
Resolution	up to 1.080p60		-
Format NTSC	-		-
Format CCIR601-NTSC	-		-
Format PAL	-		-
Format CCIR-PAL	-		-
Format RS-170	-		-
Format SECAM	-		-
Format RGB	-		-
Format YCbCr	-		-
Adjustment Software	-		-
Processing	-		-
Encoding	H.264 Video Encoding: ITU-T H.264 (ISO/IEC 14496-10); up to 1.080p60 decode @ full frame rate; Less than 40ms video encode latency		H.264 Video Encoding: ITU-T H.264 (ISO/IEC 14496-10), supported profiles: - Baseline profile, - Main profile (I, P frame coding only) - High profile (I, P frame coding only) at level 4.1, 4x D1 encode @ full frame rate; Less than 40ms video encode latency
Decoding/Playback	-		-
Codec	-		-
Performance	-		-
Overlay Features	-		-
Video Output	-		-
Video Latency	60ms		40ms
Audio	-		4x mono inputs. Provides audio / video synchronization
SIM Card	-		-
GPS	-		-
PCI	-		-
PCIe	-		-
ISA	-		-
PC/104	-		-
PC/104-Plus	-		-
PCI/104	-		-
PCI/104-Express	-		-
PCIe/104	-		-
Operating System			
Operating System Support			
Input Voltage Nominal	5V		+5V
Input Voltage Min/Max	-		-
Input Power	-		-
Battery	-		-
Operating Temperature	-		-
Extended Operating Temperature	-40°C to 85°C		-40°C to 85°C
Protection	-		-
MTBF	-		-
Certification	-		-
Dimensions	4,55 x 3,775in		4,55 x 3,775in
Weight	-		-
Material	-		-
Typ. Application	Mobile, Military	-	Mobile, Military

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14 von 14 Artikel aus dem Bereich Stand-Alone Digital Video Recorder wurden für das PDF ausgewählt.

## Stand-Alone Digital Video Recorder



**XStream-HD-EXT-V Ultra Low Latency Video Streamer**



**MultiStream-HD-SD8**



**XStream-SD4**

### Bestellinformation

Artikel-Nr. PPPF6100  
XStream-HD-EXT-V, -40°C to 85°C., Ultra Low Latency Video Streamer H.264 / H.265, 2x HD-SDI Input, 1x GB Ethernet RTSP Streaming Output  
1x SATA External Storage, 1x SD-Card Storage

Artikel-Nr. PPPF6120  
MultiStream-HD-SD8, -40°C to 85°C, Ultra Low Latency Multi Channel Video Streamer, 1x HD-SDI Input, 8x NTSC/PAL/RS-170 Inputs

Artikel-Nr. PPPF6074-1  
XStream-SD4-EXT, -40°C to 85°C, H.264 Ultra Low Latency Video Streamer, 4x PAL / NTSC / RS-170 composite input

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## Stand-Alone Digital Video Recorder



DXStream-HDMI



StreamCorder-HD-SDI



StreamCorder-HD-HDMI

PC/104 (96 x 90 mm)	x	-	-
PC/104-Plus (96/99 x 90 mm)	-	-	-
PCI/104	-	-	-
PCI/104-Express (96/99 x 90/117mm)	-	-	-
PCIe/104	-	x	x
Controller	-	-	-
SD	-	1x SD card slot on-board	1x SD card slot on-board
HD SATA	-	-	-
Graphic Interface	DVI, HDMI	SDI	Flexible Capture at up to 1080p30 HDMI
Interface COM	-	1x RS485	1x RS485
CAN	-	CAN 2.0 (Optional)	CAN2.0 (Optional)
Interface USB	-	1x USB 2.0	1x USB 2.0
Interface LAN	10/100/1000 BASE-T	10/100/1000 BASE-T	10/100/1000 BASE-T
Mini PCIe	-	1x MiniPCle	-
Camera	-	-	-
Video Input	-	HD-SDI input	Up to 4 concurrent PAL / NTSC / RS-170 composite video inputs
Resolution	up to 1.080p60	-	-
Format NTSC	-	-	-
Format CCIR601-NTSC	-	-	-
Format PAL	-	-	-
Format CCIR-PAL	-	-	-
Format RS-170	-	-	-
Format SECAM	-	-	-
Format RGB	-	-	-
Format YCbCr	-	-	-
Adjustment Software	-	-	-
Processing	-	-	-
Encoding	H.264 Video Encoding: ITU-T H.264 (ISO/IEC 14496-10); up to 1.080p60 decode @ full frame rate; Less than 40ms video encode latency	Real-time HD H.264 encode at 1080p30 Baseline JPEG with JFIF support	H.264 Video Encoding: ITU-T H.264 (ISO/IEC 14496-10), supported profiles: - Baseline profile, - Main profile (I,P frame coding only) - High profile (I, P frame coding only) at level 4.1, Baseline JPEG with JFIF support
Decoding/Playback	-	-	-
Codec	-	-	-
Performance	-	-	-
Overlay Features	-	-	-
Video Output	-	-	-
Video Latency	60ms	<150ms	<150ms
Audio	-	Embedded audio captured from HD-SDI input	Embedded Audio captured from HDMI input; Provides Audio/Video synchronisation
SIM Card	-	-	-
GPS	-	-	High-sensitivity GPS (option)
PCI	-	-	-
PCIe	-	1x MiniPCle	-
ISA	-	-	-
PC/104	-	-	-
PC/104-Plus	-	-	-
PCI/104	-	-	-
PCI/104-Express	-	-	-
PCIe/104	-	-	-
Operating System	-	-	-
Operating System Support	-	-	-
Input Voltage Nominal	5V	5V	+5V
Input Voltage Min/Max	-	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	-	-	-
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Protection	-	-	-
MTBF	-	-	-
Certification	-	-	-
Dimensions	4,55 x 3,775in	-	-
Weight	-	-	-
Material	-	-	-
Typ. Application	Mobile, Military	-	-

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## Stand-Alone Digital Video Recorder



**DXStream-HDMI**



**StreamCorder-HD-SDI**



**StreamCorder-HD-HDMI**

### Bestellinformation

Artikel-Nr. PPPF6079-1  
DXStream-HDMI-EXT, -40°C to 85°C, H.264 Ultra  
Low Latency Streaming Client, HDMI/DVI output,  
PC/104

Artikel-Nr. PPPF6065-1  
StreamCorder-HD-SDI-EXT, -40°C to 85°C, H.264  
HD Video Streamer, w/ HD-SDI input

Artikel-Nr. PPPF6066-1  
StreamCorder-HD-SDI-VK-EXT, -40°C to 85°C,  
H.264 HD Video Streamer, w/ HD-SDI + KLV /  
sensors Vetronix

Artikel-Nr. PPPF6072-1  
StreamCorder-HD-HDMI-EXT, -40°C to 85°C,  
H.264 HD Video Streamer with HDMI input

Artikel-Nr. PPPF6072-5  
StreamCorder-HD-HDMI-VK-EXT, -40°C to 85°C,  
H.264 HD Video Streamer with HDMI input +  
sensors Vetronix

Artikel-Nr.  
.

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## Stand-Alone Digital Video Recorder



StreamCorder-HD-RGB/STANAG



StreamCorder-SD4



DeltaStreamingCorder HD-SDI

PC/104 (96 x 90 mm)	-	-	-
PC/104-Plus (96/99 x 90 mm)	-	-	-
PCI/104	-	-	-
PCI/104-Express (96/99 x 90/117mm)	-	-	-
PCIe/104	x	x	x
Controller	-	-	-
SD	-	1x SD card slot on-board	1x SD card slot on-board
HD SATA	-	-	-
Graphic Interface	VGA/CRT	-	4x HD-SDI SDI
Interface COM	1x RS485	1x RS485	1x RS485
CAN	-	CAN2.0 (Optional)	CAN 2.0 (Optional)
Interface USB	USB 2.0 OTG USB 2.0	1x USB 2.0	1x USB 2.0
Interface LAN	10/100/1000 BASE-T	10/100/1000 BASE-T	10/100/1000 BASE-T, Optional WLAN
Mini PCIe	-	-	1x MiniPCIe
Camera	-	-	-
Video Input	RGB, Stanag3350, VGA	Up to 4 concurrent PAL / NTSC / RS-170 composite video inputs	HD-SDI input
Resolution	VGA, SVGA, XGA, SXGA, HD 720	-	Up to 1.080p30
Format NTSC	-	x	-
Format CCIR601-NTSC	-	-	-
Format PAL	-	x	-
Format CCIR-PAL	-	-	-
Format RS-170	-	x	-
Format SECAM	-	-	-
Format RGB	RGsB (sync-on-green)	-	-
Format YCbCr	-	-	-
Adjustment Software	-	-	-
Processing	-	-	-
Encoding	ITU-T H.264 (ISO/IEC 14496-10), up to 1.080p30 encode, CAVLC and CABAC coding, supports VBR & CBR	H.264 Video Encoding: ITU-T H.264 (ISO/IEC 14496-10), supported profiles: - Baseline profile, - Main profile (I, P frame coding only) - High profile (I, P frame coding only) at level 4.1, Baseline JPEG with JFIF support	H.264 / M-JPEG CODEC, ITU-T H.264 (ISO/IEC 14496-10), CAVLC and CABAC coding, JPEG (ISO/IEC 10918-1)
Decoding/Playback	-	-	-
Codec	-	-	-
Performance	-	-	-
Overlay Features	-	-	-
Video Output	-	-	-
Video Latency	-	<150ms	<150ms
Audio	-	4x mono input	Embedded audio captured from HD-SDI input
SIM Card	-	-	-
GPS	-	-	-
PCI	-	-	-
PCIe	-	1x Mini PCIe	1x MiniPCIe
ISA	-	-	-
PC/104	-	-	-
PC/104-Plus	-	-	-
PCI/104	-	-	-
PCI/104-Express	-	-	-
PCIe/104	-	-	-
Operating System	-	-	-
Operating System Support	-	-	-
Input Voltage Nominal	5V	5V	5V
Input Voltage Min/Max	-	-	-
Input Power	<4W	-	-
Battery	-	-	-
Operating Temperature	-	-	-
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Protection	-	-	-
MTBF	-	-	-
Certification	-	-	-
Dimensions	91,44 x 96,52 mm	-	144 x 61 x 266 mm (W x H x D, with brackets)
Weight	-	-	-
Material	-	-	-
Typ. Application	-	-	-

# Stand-Alone Digital Video Recorder



**StreamCorder-HD-RGB/STANAG**



**StreamCorder-SD4**



**DeltaStreamingCorder HD-SDI**

Bestellinformation

Artikel-Nr. PPPF6084-1  
StreamCorder-HD-RGB/STANAG-EXT, -40°C to  
85°C, H.264 HD Video Streamer with  
RGB/STANAG/VGA input

Artikel-Nr. PPPF6067-1  
StreamCorder-SD4-EXT, -40°C to 85°C, H.264  
Video Recording & Streaming, NTSC/PAL

Artikel-Nr. PPPF6067-7  
StreamCorder-SD4-VX-EXT, -40°C to 85°C, H.264  
Video Recording & Streaming, NTSC/PAL, sensors  
Vetronix

Artikel-Nr.

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Artikel-Nr.

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Artikel-Nr. VSKC1001  
DeltaStreamingCorder HD-SDI , with HD-SDI 1:4  
distribution amplifier for mobile use with EOS Star  
SAFIRE 380-HD

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## Stand-Alone Digital Video Recorder



HDMI+SDI+Audio to WiFi+LAN StreamCorder



HDMI+SDI+Audio to WiFi+LAN+WWAN StreamCorder



HDMI+SDI+DVI+Audio to WiFi+LAN StreamCorder

PC/104 (96 x 90 mm)	-	-	-
PC/104-Plus (96/99 x 90 mm)	-	-	-
PCI/104	-	-	-
PCI/104-Express (96/99 x 90/117mm)	-	-	-
PCIe/104	-	-	-
Controller	-	-	-
SD	-	-	-
HD SATA	-	-	-
Graphic Interface	HDMI, SDI	HDMI, SDI	via DVI-I VGA/CRT, 1x DVI, 2x HDMI, 1x S-Video, 1x Composite/CVBS, 1x YpbPr, 1x SDI
Interface COM	-	-	-
CAN	-	-	-
Interface USB	-	USB 2.0	1x USB 3.0
Interface LAN	10/100 BASE-T, WiFi 802.11b/g/n WLAN	10/100 BASE-T, WiFi 802.11b/g/n WLAN	10/100/1000 BASE-T, WiFi 802.11b/g/n WLAN
Mini PCIe	-	-	-
Camera	-	-	-
Video Input	1x HDMI and 1x SDI	1x HDMI and 1x SDI	1x HDMI, 1x DVI and 1x SDI
Resolution	Up to 1.920 x 1.080p @ 60 / 50fps	Up to 1.920 x 1.080p @ 60 / 50fps	Up to 1.920 x 1.080p @ 60 / 50fps
Format NTSC	-	-	-
Format CCIR601-NTSC	-	-	-
Format PAL	-	-	-
Format CCIR-PAL	-	-	-
Format RS-170	-	-	-
Format SECAM	-	-	-
Format RGB	-	-	-
Format YCbCr	-	-	-
Adjustment Software	-	-	-
Processing	-	-	-
Encoding	H.264 / AVC	H.264 / AVC	H.264 / H.265 / AVC
Decoding/Playback	-	-	-
Codec	Hardware Compression, Real-Time Mode	MP4; Hardware Compression, Real-Time Mode	MP4 / TS / MOV; Hardware Compression, Real-Time Mode
Performance	-	-	-
Overlay Features	-	-	-
Video Output	Resize range from 128 x 128 to 1.920 x 1.080 (P60)	Resize range from 128 x 128 to 1.920 x 1.080 (P60)	Resize range from 160 x 120 to 1.920 x 1.080 (P60)
Video Latency	-	-	-
Audio	1x 3,5 mm Stereo Analog Audio, SDI / HDMI Embedded Audio	1x 3,5 mm Stereo Analog Audio, SDI / HDMI Embedded Audio	SDI / HDMI / DVI-D Embedded Audio, 2x Analog L/R Audio and 3,5 mm Phone Jack
SIM Card	-	1x Sim Card Slot (for 3G / 4G-LTE Usage)	-
GPS	-	-	-
PCI	-	-	-
PCIe	-	-	-
ISA	-	-	-
PC/104	-	-	-
PC/104-Plus	-	-	-
PCI/104	-	-	-
PCI/104-Express	-	-	-
PCIe/104	-	-	-
Operating System	-	-	-
Operating System Support	-	-	-
Input Voltage Nominal	12VDC (with DC Adapter)	12VDC (with DC Adapter)	12VDC (with DC Adapter)
Input Voltage Min/Max	-	-	-
Input Power	-	-	-
Battery	-	2x 18.650 Battery slot with 3,7V / 2.600mAh (not included)	-
Operating Temperature	-	-	-
Extended Operating Temperature	-	-	-
Protection	-	-	-
MTBF	-	-	-
Certification	-	-	-
Dimensions	100 x 65,6 x 26 mm	106 x 102 x 42 mm	150 x 82 mm
Weight	-	-	-
Material	-	metal housing	metal housing
Typ. Application	-	-	-

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14 von 14 Artikel aus dem Bereich Stand-Alone Digital Video Recorder wurden für das PDF ausgewählt.

## Stand-Alone Digital Video Recorder



**HDMI+SDI+Audio to WiFi+LAN StreamCorder**



**HDMI+SDI+Audio to WiFi+LAN+WWAN StreamCorder**



**HDMI+SDI+DVI+Audio to WiFi+LAN StreamCorder**

Bestellinformation

Artikel-Nr. VSKS1000  
HDMI+SDI+Audio to WiFi+LAN StreamCorder,  
Hardware Compression, Real-Time Mode

Artikel-Nr. VSKS1010  
HDMI+SDI+Audio to WiFi+LAN+WWAN  
StreamCorder, Hardware Compression, Real-Time  
Mode, dual battery slot

Artikel-Nr. VSKS1020  
HDMI+SDI+DVI+Audio to WiFi+LAN  
StreamCorder, Hardware Compression, Real-Time  
Mode

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## Stand-Alone Digital Video Recorder



HYDRA



microHYDRA

PC/104 (96 x 90 mm)	-	-
PC/104-Plus (96/99 x 90 mm)	-	-
PCI/104	-	-
PCI/104-Express (96/99 x 90/117mm)	-	-
PCle/104	-	-
Controller	-	-
SD	-	-
HD SATA	-	1x mSATA socket
Graphic Interface	Up to 12 channel composite video input channels Composite/CVBS	VGA/CRT
Interface COM	-	1x RS232
CAN	-	x
Interface USB	-	2x USB 2.0
Interface LAN	10/100 BASE-T	2x 10/100/1000 BASE-T
Mini PCIe	-	x
Camera	-	-
Video Input	Up to 12 channel composite video input channels	Up to 8 independent PAL/NTSC/RS-170 inputs; 10bit analog-to-digital converters
Resolution	-	-
Format NTSC	-	x
Format CCIR601-NTSC	x	-
Format PAL	-	x
Format CCIR-PAL	x	-
Format RS-170	-	x
Format SECAM	-	-
Format RGB	-	-
Format YCbCr	-	-
Adjustment Software	Software selectable brightness, contrast and saturation control	-
Processing	-	-
Encoding	-	-
Decoding/Playback	-	-
Codec	-	-
Performance	-	-
Overlay Features	-	-
Video Output	-	-
Video Latency	-	-
Audio	Voice quality mono (1Vrms); Provides Audio/Video Synchronisation	4 independent mono audio inputs; Line level inputs
SIM Card	-	-
GPS	-	-
PCI	-	-
PCle	-	1x miniPCle
ISA	-	-
PC/104	-	Single PC/104 stack location
PC/104-Plus	-	-
PCI/104	-	1x Spare PCI104 stack level (Internal OEM expansion option for 2)
PCI/104-Express	-	-
PCle/104	-	-
Operating System	-	-
Operating System Support	-	-
Input Voltage Nominal	-	-
Input Voltage Min/Max	9 to 40 VDC	12 to 36 VDC
Input Power	-	12W
Battery	-	-
Operating Temperature	-20°C to +50°C	-40°C to +70°C
Extended Operating Temperature	-	-
Protection	Protected against reverse voltage, over voltage and transients	IP67 dust-proof, water immersion to 1m, Surge & Spike protection
MTBF	-	-
Certification	MIL-STD-810F	-
Dimensions	260 x 165 x 180 mm (L x H x W)	160 x 90 x 120 mm (L x H x W)
Weight	4.05 Kg	-
Material	Anodized aluminium alloy extrusion enclosure; Rubber base-plate and stainless steel fixings; End plates sealed with rubber gasket; STANAG 2338 compliant Infrared Reflective Paint	Milled from solid Aluminium Alloy block
Typ. Application	Mobile, Military	Mobile, Military

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Stand-Alone Digital Video Recorder  
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## Stand-Alone Digital Video Recorder



**HYDRA**



**microHYDRA**

### Bestellinformation

Artikel-Nr. PKBX6000  
HYDRA, Video streaming system, Standard  
9/12-channel

Artikel-Nr. PKBX6000-1  
HYDRA-SD12-HS, Video streaming system H264,  
Standard 12-channel, 300fps/360fps

Artikel-Nr. PKBX6000-2  
HYDRA SD12-MS, Video streaming system  
MPEG-4, Standard 12-channel, 300fps/360fps

Artikel-Nr. PKBX6002  
microHYDRA-SD4, Video streaming appliance ,  
4-channel PAL/NTSC/RS-170

Artikel-Nr. PKBX6002-1  
microHYDRA-SD8, Video streaming appliance ,  
8-channel PAL/NTSC/RS-170

Artikel-Nr. PKBX6002-2  
microHYDRA-HD-SDI2, Video streaming  
appliance, 2-channel HD-SDI, 1.080p30, STANAG  
4609

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Video Overlay & Annotation  
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eVAC2000



eVAC4000



VMIX104

PC/104 (96 x 90 mm)	-	-	-
PC/104-Plus (96/99 x 90 mm)	-	-	-
PCI/104	-	x	-
PCI/104-Express (96/99 x 90/117mm)	-	-	-
PCIe/104	-	-	-
Controller	-	-	-
SD	-	-	-
HD SATA	-	-	-
Graphic Interface	VGA/CRT	VGA/CRT, DVI, HDMI, S-Video	8x Composite/CVBS
Interface COM	-	-	-
CAN	-	-	-
Interface USB	-	-	-
Interface LAN	-	-	-
Mini PCIe	-	-	-
Camera	-	-	-
Video Input	2x analog composite input	4x concurrent composite NTSC/PAL/RS-170	4x analog NTSC/PAL (from 8)
Resolution	-	-	-
Format NTSC	x	x	-
Format CCIR601-NTSC	-	-	-
Format PAL	x	x	-
Format CCIR-PAL	-	x	-
Format RS-170	-	x	-
Format SECAM	x	-	-
Format RGB	-	-	-
Format YCbCr	-	-	-
Adjustment Software	-	-	-
Processing	-	-	-
Encoding	-	-	-
Decoding/Playback	-	-	-
Codec	-	-	-
Performance	-	-	x4 full frame rate @ D1
Overlay Features	-	-	Alpha-blended text/graphics for the output channel
Video Output	-	-	-
Video Latency	-	-	-
Audio	-	-	-
SIM Card	-	-	-
GPS	-	-	-
PCI	-	-	-
PCIe	-	-	-
ISA	-	-	x
PC/104	-	-	x
PC/104-Plus	-	-	-
PCI/104	x	x	-
PCI/104-Express	-	-	-
PCIe/104	-	-	-
Operating System	-	-	-
Operating System Support	Windows2000, XP, XPE, Linux, QNX	Windows, Linux	WIN, Linux
Input Voltage Nominal	5V	5V	5V
Input Voltage Min/Max	-	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	0°C to 60°C	0°C to 60°C	0°C to 60°C
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Protection	-	-	-
MTBF	-	-	-
Certification	-	-	-
Dimensions	90.17 x 95.89 mm	-	90 x 96 mm
Weight	-	-	-
Material	-	-	-
Typ. Application	-	-	-

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eVAC2000



eVAC4000



VMIX104

## Bestellinformation

Artikel-Nr. PPPF6064  
eVAC2000, 0°C to 60°C, PCI/104 Video Annotation  
Controller Board

Artikel-Nr. PPPF6064-1  
eVAC2000, -40°C to 85°C, PCI/104 Video  
Annotation Controller Board

Artikel-Nr. PPPF6068  
eVAC4000, 0°C to 60°C, Video Annotation and  
Overlay Controller

Artikel-Nr. PPPF6068-1  
eVAC4000-Ext., -40°C to 85°C, Video Annotation  
and Overlay Controller

Artikel-Nr. PPPF6015  
VMIX104, PC/104 Board, 0°C to 60°C, Video  
overlay/annotation controller

Artikel-Nr. PPPF6015-1  
VMIX104-Ext., PC/104 Board, -40°C to 85°C,  
Video overlay/annotation controller

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AVC8000X



AVC4000



VAC2000

PC/104 (96 x 90 mm)			
PC/104-Plus (96/99 x 90 mm)			
PCI/104			
PCI/104-Express (96/99 x 90/117mm)			
PCIe/104			
Controller	-	-	-
SD			
HD SATA			
Graphic Interface	-	8x Composite/CVBS	2x S-Video, 4x Composite/CVBS
Interface COM			
CAN	-	-	-
Interface USB	-	-	-
Interface LAN	-	-	-
Mini PCIe	-	-	-
Camera	-	-	-
Video Input	8x analog NTSC/PAL	4x analog NTSC/PAL (from 8)	2x analog NTSC/PAL (from 6)
Resolution	-	-	-
Format NTSC	-	-	-
Format CCIR601-NTSC	-	-	-
Format PAL	-	-	-
Format CCIR-PAL	-	-	-
Format RS-170	-	-	-
Format SECAM	-	-	-
Format RGB	-	-	-
Format YCbCr	-	-	-
Adjustment Software	-	-	-
Processing	-	-	-
Encoding	-	-	-
Decoding/Playback	-	-	-
Codec	-	-	-
Performance	-	x1 full frame rate @ D1 x4 full frame rate @ CIF High speed alpha-blended overlay	x2 full frame rate @ D1
Overlay Features	-		High speed alpha-blended graphics overlay & video mixing
Video Output	-	-	-
Video Latency	<40ms	-	-
Audio	8x Mono Audio Inputs	-	-
SIM Card	-	-	-
GPS			
PCI	-	x	x
PCIe	1x	-	-
ISA	-	x	x
PC/104	-	-	-
PC/104-Plus	-	x	x
PCI/104	-	-	-
PCI/104-Express	-	-	-
PCIe/104	-	-	-
Operating System			
Operating System Support	-	WIN, Linux, QNX	WIN, Linux, QNX
Input Voltage Nominal	5V	5V	5V
Input Voltage Min/Max	-	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	0°C to 60°C	0°C to 60°C	0°C to 60°C
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Protection	-	-	-
MTBF	-	-	-
Certification	-	-	-
Dimensions	-	90 x 96 mm	90 x 96 mm
Weight	-	-	-
Material	-	-	-
Typ. Application	-	-	-

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AVC8000X



AVC4000



VAC2000

## Bestellinformation

Artikel-Nr. PPPF6026  
AVC8000X, PC/104-Express Board, 0°C to 60°C,  
8x D1 Video Framegrabber and overlay controller

Artikel-Nr. PPPF6026-1  
AVC8000X-EXT, PC/104-Express Board, -40°C to  
85°C, 8x D1 Video Framegrabber and overlay  
controller

Artikel-Nr. PPPF6010  
AVC4000, PC/104+ Board, 0°C to 60°C, 4-channel  
video frame grabber

Artikel-Nr. PPPF6010-1  
AVC4000-Ext., PC/104+ Board, -40°C to 85°C,  
4-channel video frame grabber

Artikel-Nr. PPPF6014  
VAC2000, PC/104+ Board, 0°C to 60°C,  
Multi-channel video annotation/overlay controller

Artikel-Nr. PPPF6014-1  
VAC2000-Ext., PC/104+ Board, -40°C to 85°C,  
Multi-channel video annotation/overlay controller

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nanoQuad

PC/104 (96 x 90 mm)	
PC/104-Plus (96/99 x 90 mm)	
PCI/104	
PCI/104-Express (96/99 x 90/117mm)	
PCIe/104	
Controller	
SD	
HD SATA	
Graphic Interface	-
Interface COM	
CAN	
Interface USB	1x USB 2.0
Interface LAN	-
Mini PCIe	x
Camera	
Video Input	4x concurrent composite PAL / NTSC / RS-170
Resolution	
Format NTSC	x
Format CCIR601-NTSC	x
Format PAL	x
Format CCIR-PAL	x
Format RS-170	x
Format SECAM	
Format RGB	
Format YCbCr	
Adjustment Software	
Processing	
Encoding	
Decoding/Playback	
Codec	
Performance	
Overlay Features	Single / Quad channel & PIP
Video Output	Composite PAL / NTSC
Video Latency	
Audio	
SIM Card	
GPS	
PCI	
PCIe	
ISA	
PC/104	
PC/104-Plus	
PCI/104	
PCI/104-Express	
PCIe/104	
Operating System	
Operating System Support	Drivers for Windows & Linux (other OS by request)
Input Voltage Nominal	
Input Voltage Min/Max	
Input Power	
Battery	
Operating Temperature	0°C to 60°C
Extended Operating Temperature	-40°C to 85°C
Protection	
MTBF	
Certification	-
Dimensions	
Weight	
Material	
Typ. Application	-

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#### nanoQuad

##### Bestellinformation

Artikel-Nr. PPPX6040  
nanoQuad, Video Mixer, 0°C to 60°C, 4x  
PAL/NTSC/RS-170 video inputs, MiniPCle

Artikel-Nr. PPPX6040-1  
nanoQuad-EXT, Video Mixer, -40°C to 85°C, 4x  
PAL/NTSC/RS-170 video inputs, MiniPCle

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VTV2000-IS



VGACOMP-IS



nanoVTV / nanoVTV-CP

PCI/104		x	
Graphic Interface	-	VGA/CRT, Composite/CVBS	-
Interface COM	1x RS232		1x RS232
Video Input	RGB, HSync, VSync	Progressive scan RGB, H-Sync, V-Sync (Analog VGA); 3x 10bit analog-to-digital converters; Up to 1.920 x 1.080 VGA input resolution	RGB, HSync, VSync
Resolution	VGA	-	VGA
Format NTSC	-	-	-
Format CCIR601-NTSC	-	x	-
Format PAL	-	-	only PPPX6009/-1
Format CCIR-PAL	-	x	-
Format RS-170	-	x	-
Video Output	CCIR601-NTSC RS170 CCIR-PAL PAL-B, -G, +H, -I Composite or S-Video	10bit digital-to-analog conversion; Composite video output	CCIR601-NTSC RS170 Composite or S-Video
PCI	-	-	-
ISA	-	-	-
PC/104	x	-	-
PCI/104	-	Can be mounted on a PCI/104 stack without consuming host CPU resources	-
Operating System Support	Windows NT, 2000, XP, Linux, QNX		Windows-NT, 2000, XP, Linux, QNX
Input Voltage Nominal	5V	+5V	5V
Input Voltage Min/Max	-	-	-
Input Power	-	-	-
Operating Temperature	0°C to 60°C	0°C to 60°C	0°C to 60°C
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Dimensions	90 x 96 mm	3.6 x 3.8 inch	90 x 96 mm
Weight	-	-	-
Material	-	-	-
Case	-	-	-

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VTV2000-IS



VGACOMP-IS



nanoVTV / nanoVTV-CP

## Bestellinformation

Artikel-Nr. PPPX6007  
VTV2000IS-CP, PC/104 Board, 0°C to 60°C,  
Intelligent VGA-to-RS170 Controller, PAL Output

Artikel-Nr. PPPX6007-1  
VTV2000IS-CN, PC/104 Board, 0°C to 60°C,  
Intelligent VGA-to-RS170 Controller, NTSC/RS170

Artikel-Nr. PPPX6007-2  
VTV2000IS-CP-EXT, PC/104 Board, -40°C to  
85°C, Intelligent VGA-to-RS170 Controller, PAL  
Output

Artikel-Nr. PPPX6007-3  
VTV2000IS-CN-EXT, PC/104 Board, -40°C to  
85°C, Intelligent VGA-to-RS170 Controller,  
NTSC/RS170

Artikel-Nr. PPPX6011  
VGACOMP-IS-PAL, 0°C to 60°C, VGA to PAL  
scan converter

Artikel-Nr. PPPX6011-1  
VGACOMP-IS-PAL-EXT, -40°C to 85°C, VGA to  
PAL scan converter

Artikel-Nr. PPPX6011-2  
VGACOMP-IS-NTSC, 0°C to 60°C, VGA to PAL  
scan converter

Artikel-Nr. PPPX6011-3  
VGACOMP-IS-NTSC-EXT, -40°C to 85°C, VGA to  
NTSC scan converter

Artikel-Nr. PPPX6011-4  
VGACOMP-IS-RS170, 0°C to 60°C, VGA to  
RS170 scan converter

Artikel-Nr. PPPX6011-5  
VGACOMP-IS-RS170-EXT, -40°C to 85°C, VGA to  
RS170 scan converter

Artikel-Nr. PPPX6008  
nanoVTV, PC/104+ Board, 0°C to 60°C, Intelligent  
VGA-to-NTSC/RS170 Converter

Artikel-Nr. PPPX6008-1  
nanoVTV-EXT, PC/104+ Board, -40°C to 85°C,  
Intelligent VGA-to-NTSC/RS170 Converter

Artikel-Nr. PPPX6009  
nanoVTV-CP, PC/104+ Board, 0°C to 60°C,  
Intelligent VGA-to-PAL Converter

Artikel-Nr. PPPX6009-1  
nanoVTV-CP-EXT, PC/104+ Board, -40°C to 85°C,  
Intelligent VGA-to-PAL Converter

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VGASTANAG



VTV2000-IS



VGACOMP-IS

PCI/104			x
Graphic Interface	-	-	VGA/CRT, Composite/CVBS
Interface COM	1x RS232	1x RS232	
Video Input	RGB, Hsync, Vsync	RGB, HSync, VSync	Progressive scan RGB, H-Sync, V-Sync (Analog VGA); 3x 10bit analog-to-digital converters; Up to 1.920 x 1.080 VGA input resolution
Resolution	SVGA, XGA, SXGA	VGA	-
Format NTSC	-	-	-
Format CCIR601-NTSC	-	-	x
Format PAL	-	-	-
Format CCIR-PAL	-	-	x
Format RS-170	-	-	x
Video Output	1x STANAG (RS-343) 1x STANAG (PAL) 1x STANAG (NTSC RS-170A)	CCIR601-NTSC RS170 CCIR-PAL PAL-B, -G, -H, -I Composite or S-Video	10bit digital-to-analog conversion; Composite video output
PCI	x	-	-
ISA	-	-	-
PC/104	-	x	-
PCI/104	x	-	Can be mounted on a PCI/104 stack without consuming host CPU resources
Operating System Support	-	Windows NT, 2000, XP, Linux, QNX	
Input Voltage Nominal	5V	5V	+5V
Input Voltage Min/Max	-	-	-
Input Power	-	-	-
Operating Temperature	0°C to 60°C	0°C to 60°C	0°C to 60°C
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Dimensions	90 x 96 mm	90 x 96 mm	3.6 x 3.8 inch
Weight	-	-	-
Material	-	-	-
Case	-	-	-

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## Video Display Format Konverter



**VGASTANAG**



**VTV2000-IS**



**VGACOMP-IS**

### Bestellinformation

Artikel-Nr. PPPX6000  
VGASTANAG-A, PCI/104 Board, 0°C to 60°C,  
VGA to STANAG 3350 class A scan converter

Artikel-Nr. PPPX6000-1  
VGASTANAG-A-Ext., PCI/104 Board, -40°C to  
85°C, VGA to STANAG 3350 class A scan  
converter

Artikel-Nr. PPPX6001  
VGASTANAG-B, PCI/104 Board, 0°C to 60°C,  
VGA to STANAG 3350 class B scan converter

Artikel-Nr. PPPX6001-1  
VGASTANAG-B-Ext., PCI/104 Board, -40°C to  
85°C, VGA to STANAG 3350 class B scan  
converter

Artikel-Nr. PPPX6002  
VGASTANAG-C, PCI/104 Board, 0°C to 60°C,  
VGA to STANAG 3350 class C scan converter

Artikel-Nr. PPPX6002-1  
VGASTANAG-C-Ext., PCI/104 Board, -40°C to  
85°C, VGA to STANAG 3350 class C scan  
converter

Artikel-Nr. PPPX6007  
VTV2000IS-CP, PC/104 Board, 0°C to 60°C,  
Intelligent VGA-to-RS170 Controller, PAL Output

Artikel-Nr. PPPX6007-1  
VTV2000IS-CN, PC/104 Board, 0°C to 60°C,  
Intelligent VGA-to-RS170 Controller, NTSC/RS170

Artikel-Nr. PPPX6007-2  
VTV2000IS-CP-EXT, PC/104 Board, -40°C to  
85°C, Intelligent VGA-to-RS170 Controller, PAL  
Output

Artikel-Nr. PPPX6007-3  
VTV2000IS-CN-EXT, PC/104 Board, -40°C to  
85°C, Intelligent VGA-to-RS170 Controller,  
NTSC/RS170

Artikel-Nr. PPPX6011  
VGACOMP-IS-PAL, 0°C to 60°C, VGA to PAL  
scan converter

Artikel-Nr. PPPX6011-1  
VGACOMP-IS-PAL-EXT, -40°C to 85°C, VGA to  
PAL scan converter

Artikel-Nr. PPPX6011-2  
VGACOMP-IS-NTSC, 0°C to 60°C, VGA to PAL  
scan converter

Artikel-Nr. PPPX6011-3  
VGACOMP-IS-NTSC-EXT, -40°C to 85°C, VGA to  
NTSC scan converter

Artikel-Nr. PPPX6011-4  
VGACOMP-IS-RS170, 0°C to 60°C, VGA to  
RS170 scan converter

Artikel-Nr. PPPX6011-5  
VGACOMP-IS-RS170-EXT, -40°C to 85°C, VGA to  
RS170 scan converter

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## Video Display Format Konverter



**nanoVTV / nanoVTV-CP**

**Micro BiDirectional SDI / HDMI Konverter**

**HD-SDI to DVI Interface Baugruppe**

PCI/104	-	-
Graphic Interface	-	HDMI, 3G-SDI / HD-SDI / SDI IN + OUT BNC-Plug -
Interface COM	1x RS232	-
Video Input	RGB, HSync, VSync	3G-SDI / HD-SDI / SDI + HDMI
Resolution	VGA	Up to 1.080
Format NTSC	-	-
Format CCIR601-NTSC	-	-
Format PAL	only PPPX6009/-1	-
Format CCIR-PAL	-	-
Format RS-170	-	-
Video Output	CCIR601-NTSC RS170 Composite or S-Video	-
PCI	-	-
ISA	-	-
PC/104	-	-
PCI/104	-	-
Operating System Support	Windows-NT, 2000, XP, Linux, QNX	-
Input Voltage Nominal	5V	-
Input Voltage Min/Max	-	4,4 to 5,25VDC
Input Power	-	2,5W
Operating Temperature	0°C to 60°C	0°C bis +40°C
Extended Operating Temperature	-40°C to 85°C	-20°C bis 60°C
Dimensions	90 x 96 mm	59 x 25 x 81 mm (W x H x D)
Weight	-	174 g
Material	-	Aluminium housing
Case	-	-

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## Video Display Format Konverter



**nanoVTV / nanoVTV-CP**



**Micro BiDirectional SDI / HDMI Konverter**



**HD-SDI to DVI Interface Baugruppe**

### Bestellinformation

Artikel-Nr. PPPX6008  
nanoVTV, PC/104+ Board, 0°C to 60°C, Intelligent  
VGA-to-NTSC/RS170 Converter

Artikel-Nr. PPPX6008-1  
nanoVTV-EXT, PC/104+ Board, -40°C to 85°C,  
Intelligent VGA-to-NTSC/RS170 Converter

Artikel-Nr. PPPX6009  
nanoVTV-CP, PC/104+ Board, 0°C to 60°C,  
Intelligent VGA-to-PAL Converter

Artikel-Nr. PPPX6009-1  
nanoVTV-CP-EXT, PC/104+ Board, -40°C to 85°C,  
Intelligent VGA-to-PAL Converter

Artikel-Nr. PZCV2015  
Micro BiDirectional SDI / HDMI Konverter, 3G-SDI  
/ HD-SDI / SDI zu HDMI, Aluminiumgehäuse

Artikel-Nr. DAIS1000  
HD-SDI to DVI Interface Baugruppe, 1x SDI input,  
1x SDI output, 1x DVI/HDMI compliant output

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## Video Display Format Konverter



COMP2HDSDI

HDMI2SDI-mini

VMIX-HDMI2SDI-IS

PCI/104	x	x	x
Graphic Interface	Composite/CVBS	optional DVI, HDMI, HD-SDI OUT BNC	DVI, HDMI
Interface COM			
Video Input	Composite PAL/NTSC/RS170		Composite PAL/NTSC/RS-170
Resolution	up to 1.080p30	Up to 1.080p30	up to 1.080p30
Format NTSC	x		x
Format CCIR601-NTSC	x		
Format PAL	x		x
Format CCIR-PAL	x		
Format RS-170	x		x
Video Output	Composite PAL/NTSC/RS170 (Analog) / HD-SDI / SDI (Digital)		Primary HD-SDI; Optional Secondary HD-SDI
PCI	-		
ISA	-		
PC/104	-		
PCI/104	-		
Operating System Support			
Input Voltage Nominal	+5V	3,3V @ &lt;1A	+5V
Input Voltage Min/Max	-		
Input Power	-		
Operating Temperature	-	-	-
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Dimensions	-		
Weight	-		
Material	-		
Case	-	-	-

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21 von 21 Artikel aus dem Bereich  
Video Display Format Konverter  
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## Video Display Format Konverter



**COMP2HDSDI**



**HDMI2SDI-mini**



**VMIX-HDMI2SDI-IS**

### Bestellinformation

Artikel-Nr. PPPX6024-1  
COMP2HDSDI-PAL-EXT, -40°C to 85°C, PAL  
Video Composite to HD-SDI Converter, PCI-104

Artikel-Nr. PPPX6024-2  
COMP2HDSDI-NTSC-EXT, -40°C to 85°C, NTSC  
Video Composite to HD-SDI Converter, PCI-104

Artikel-Nr. PPPX6024-3  
COMP2HDSDI-RS170-EXT, -40°C to 85°C,  
RS170 Video Composite to HD-SDI Converter,  
PCI-104

Artikel-Nr.  
,

Artikel-Nr. PPPX6023-1  
HDMI2SDI-mini-EXT, -40°C to 85°C, HDMI to  
HD-SDI Scan Converter, miniPCle

Artikel-Nr. PPPX6028  
VMIX-HDMI2SDI-IS-EXT, -40°C to 85°C,  
HDMI/DVI to HD-SDI Scan Converter & Mixer,  
PCI/104

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DVIVGA-IS



DVICOMP-IS



DVISTANAG

PCI/104	x	x	x
Graphic Interface	DVI, HDMI	DVI, HDMI, Composite/CVBS	DVI, HDMI
Interface COM			
Video Input	HDMI / DVI up to 1.920 x 1.080 @ 60Hz	HDMI / DVI at standard VGA resolutions	DVI / HDMI
Resolution	WXGA + 1.440 x 900	up to 1.280 x 1.024 @ 60Hz	up to 1.280 x 1.024
Format NTSC	-	x	x
Format CCIR601-NTSC	-	x	
Format PAL	-	x	x
Format CCIR-PAL	-	x	
Format RS-170	-	x	x
Video Output	Progressive scan RGB, H-Sync, V-Sync (Analog VGA); 10bit digital-to-analog conversion	CCIR601-NTSC / RS-170 / CCIR-PAL / PAL-B, PAL-G, PAL-H, PAL-I; Composite video output	STANAG 3350 Class A / B / C
PCI	-	-	
ISA	-	-	
PC/104	-	-	
PCI/104	Mechanical mounting for PCI/104 stack	-	
Operating System Support			
Input Voltage Nominal	+5V	+5V	+5V
Input Voltage Min/Max	-	-	
Input Power	-	-	
Operating Temperature	0°C to 60°C	0°C to 60°C	-
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Dimensions	3.6 x 3.8 inch	3.6 x 3.8 inch	
Weight	-	-	
Material	-	-	
Case	-	-	-

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Video Display Format Konverter  
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## Video Display Format Konverter



**DVIVGA-IS**



**DVICOMP-IS**



**DVISTANAG**

### Bestellinformation

Artikel-Nr. PPPX6012  
DVIVGA-IS, 0°C to 60°C, HDMI/DVI to VGA scan  
converter

Artikel-Nr. PPPX6012-1  
DVIVGA-IS-EXT, -40°C to 85°C,  
HDMI/DVI-to-VGA scan converter

Artikel-Nr. PPPX6019  
DVICOMP-IS-PAL, 0°C to 60°C „Color“, HDMI /  
DVI to PAL Scan Converter, PCI/104

Artikel-Nr. PPPX6019-1  
DVICOMP-IS-PAL-EXT, -40°C to 85°C „Color“,  
HDMI / DVI to PAL Scan Converter, PCI/104

Artikel-Nr. PPPX6020  
DVICOMP-IS-RS170A/NTSC „Color“ 0°C to 60°C,  
HDMI / DVI to RS170A/NTSC Scan Converter,  
PCI/104

Artikel-Nr. PPPX6020-1  
DVICOMP-IS-RS170A/NTSC-EXT „Color“ -40°C  
to 85°C, HDMI / DVI to RS170A/NTSC Scan  
Converter, PCI/104

Artikel-Nr. PPPX6021  
DVICOMP-IS-RS170 „monochrome“ 0°C to 60°C,  
HDMI / DVI to RS170 Scan Converter, PCI/104

Artikel-Nr. PPPX6021-1  
DVICOMP-IS-RS170-EXT „monochrome“ -40°C to  
85°C, HDMI / DVI to RS170 Scan Converter,  
PCI/104

Artikel-Nr. BPLK6086  
Accessory for PPPX6019/-1/6020/-1/6021/-1,  
Cable set for DVICOMP-IS w/ DVI input

Artikel-Nr. BPLK6091  
Accessory for PPPX6019/-1/6020/-1/6021/-1,  
Cable set for DVICOMP-IS w/ panel mountable  
HDMI input

Artikel-Nr. PPPX6025  
DVISTANAG-A-EXT, PCI/104 Board, -40°C to  
85°C, DVI to STANAG 3350 class A scan  
converter

Artikel-Nr. PPPX6026  
DVISTANAG-B-EXT, PCI/104 Board, -40°C to  
85°C, DVI to STANAG 3350 class B scan  
converter

Artikel-Nr. PPPX6027  
DVISTANAG-C-EXT, PCI/104 Board, -40°C to  
85°C, DVI to STANAG 3350 class C scan  
converter

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STANAGCOMP-IS

STANAGVGA-IS

STANAGDVI-IS

PCI/104	x		x
Graphic Interface	Composite/CVBS	-	DVI, HDMI
Interface COM			
Video Input	Compliant with STANAG3350 Class A, 875 lines @ 30fps (based on RS-343); Separate Red / Green / Blue input with Sync-on-green; 3x 10bit analog-to-digital converters	STANAG3350 Class A, B or C	Compliant with STANAG3350 Class A/B/C; Separate Red / Green / Blue input with Sync-on-green; 3x 10bit analog-to-digital converters
Resolution	Standard PAL or NTSC	XGA / SVGA / VGA	Class A - 1.024 x 768, Class B - 800 x 600, Class C - 800 x 600
Format NTSC	x	-	-
Format CCIR601-NTSC	-	-	-
Format PAL	x	-	-
Format CCIR-PAL	-	-	-
Format RS-170	x	-	-
Video Output	PAL/NTSC/RS-170 (Composite); 10bit digital-to-analog conversion	Progressive scan RGB, H-Sync, V-Sync (Analog VGA)	HDMI / DVI
PCI	-	-	-
ISA	-	-	-
PC/104	-	-	-
PCI/104	Mechanical mounting for PCI/104 stack	x	Mechanical mounting for PCI/104 stack
Operating System Support		-	
Input Voltage Nominal	+5V	5V	+5V
Input Voltage Min/Max	-	-	-
Input Power	-	-	-
Operating Temperature	0°C to 60°C	0°C to 60°C	0°C to 60°C
Extended Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Dimensions	3.6 x 3.8 inch	-	3.6 x 3.8 inch
Weight	-	-	-
Material	-	-	-
Case	-	-	-

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## Video Display Format Konverter



STANAGCOMP-IS



STANAGVGA-IS



STANAGDVI-IS

### Bestellinformation

Artikel-Nr. PPPX6014  
STANAGCOMP-IS-A, 0°C to 60°C, Stanag3350  
Class A to PAL/NTSC/RS-170 converter

Artikel-Nr. PPPX6014-1  
STANAGCOMP-IS-A-EXT, -40°C to 85°C,  
Stanag3350 Class A to PAL/NTSC/RS-170  
converter

Artikel-Nr. PPPX6010  
STANAGVGA-IS-A, 0°C to 60°C, STANAG 3350  
Class A to VGA scan converter

Artikel-Nr. PPPX6010-1  
STANAGVGA-IS-A-EXT, -40°C to 85°C, STANAG  
3350 Class A to VGA scan converter

Artikel-Nr. PPPX6015  
STANAGVGA-IS-B, 0°C to 60°C, STANAG 3350  
Class B to VGA scan converter

Artikel-Nr. PPPX6015-1  
STANAGVGA-IS-B-EXT, -40°C to 85°C, STANAG  
3350 Class B to VGA scan converter

Artikel-Nr. PPPX6016  
STANAGVGA-IS-C, 0°C to 60°C, STANAG 3350  
Class C to VGA scan converter

Artikel-Nr. PPPX6016-1  
STANAGVGA-IS-C-EXT, -40°C to 85°C, STANAG  
3350 Class C to VGA scan converter

Artikel-Nr. PPPX6013  
STANAGDVI-IS-A, 0°C to 60°C, Stanag3350 Class  
A to HDMI/DVI scan converter

Artikel-Nr. PPPX6013-1  
STANAGDVI-IS-A-EXT, -40°C to 85°C,  
Stanag3350 Class A to HDMI/DVI scan converter

Artikel-Nr. PPPX6017  
STANAGDVI-IS-B, 0°C to 60°C, Stanag3350 Class  
B to HDMI/DVI scan converter

Artikel-Nr. PPPX6017-1  
STANAGDVI-IS-B-EXT, -40°C to 85°C,  
Stanag3350 Class B to HDMI/DVI scan converter

Artikel-Nr. PPPX6018  
STANAGDVI-IS-C, 0°C to 60°C, Stanag3350  
Class C to HDMI/DVI scan converter

Artikel-Nr. PPPX6018-1  
STANAGDVI-IS-C-EXT, -40°C to 85°C,  
Stanag3350 Class C to HDMI/DVI scan converter

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## Video Display Format Konverter



STANAG2LVDS

nanoGMSL2HDMI-Ext miniPCle Board,  
-40°C to 85°CDVI to GMSL Stand-alone Scan  
Converter

PCI/104	x		
Graphic Interface	LCD-LVDS	-	-
Interface COM			
Video Input	STANAG3350 Class B; 3x 10bit analog-to-digital converters		
Resolution	1.024 x 768		
Format NTSC	-		
Format CCIR601-NTSC	-		
Format PAL	-		
Format CCIR-PAL	-		
Format RS-170	-		
Video Output	-		
PCI	-		
ISA	-		
PC/104	-		
PCI/104	-		
Operating System Support			
Input Voltage Nominal	+5V		
Input Voltage Min/Max	-		
Input Power	-		
Operating Temperature	-		
Extended Operating Temperature	-40°C to 85°C		
Dimensions	3,6 x 3,8 inch		
Weight	-		
Material	-		
Case	-	-	-

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## Video Display Format Konverter



**STANAG2LVDS**



**nanoGMSL2HDMI-Ext miniPCle Board,  
-40°C to 85°C**



**DVI to GMSL Stand-alone Scan  
Converter**

**Bestellinformation**

Artikel-Nr. PPPX6022-1  
STANAG2LVDS-EXT, -40°C to 85°C,  
STANAG3350 Class B to LVDS Scan Converter,  
PCI/104

Artikel-Nr. PPPX6029  
nanoGMSL2HDMI-Ext, Mini PCIe Board, -40°C to  
85°C, GMSL to HDMI converter

Artikel-Nr. BPLK6115  
Accessory for PPPX6029, Cable set for  
nanoGMSL2HDMI with 1x DVI output cable

Artikel-Nr. BPLK6116  
Accessory for PPPX6029, Cablesset for  
nanoGMSL2HDMI with 1x HDMI panel mount  
cable

Artikel-Nr. PPPX6032  
DVI to GMSL Stand-alone Scan Converter, 0 to  
60°C, 1x DVI / HDMI Input, 1x GMSL 3.12Gbps  
Gigabit Multimedia  
Serial Link Output

Artikel-Nr. PPPX6032-1  
DVI to GMSL Stand-alone Scan Converter, -40 to  
85°C, 1x DVI / HDMI Input, 1x GMSL 3.12Gbps  
Gigabit Multimedia  
Serial Link Output

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