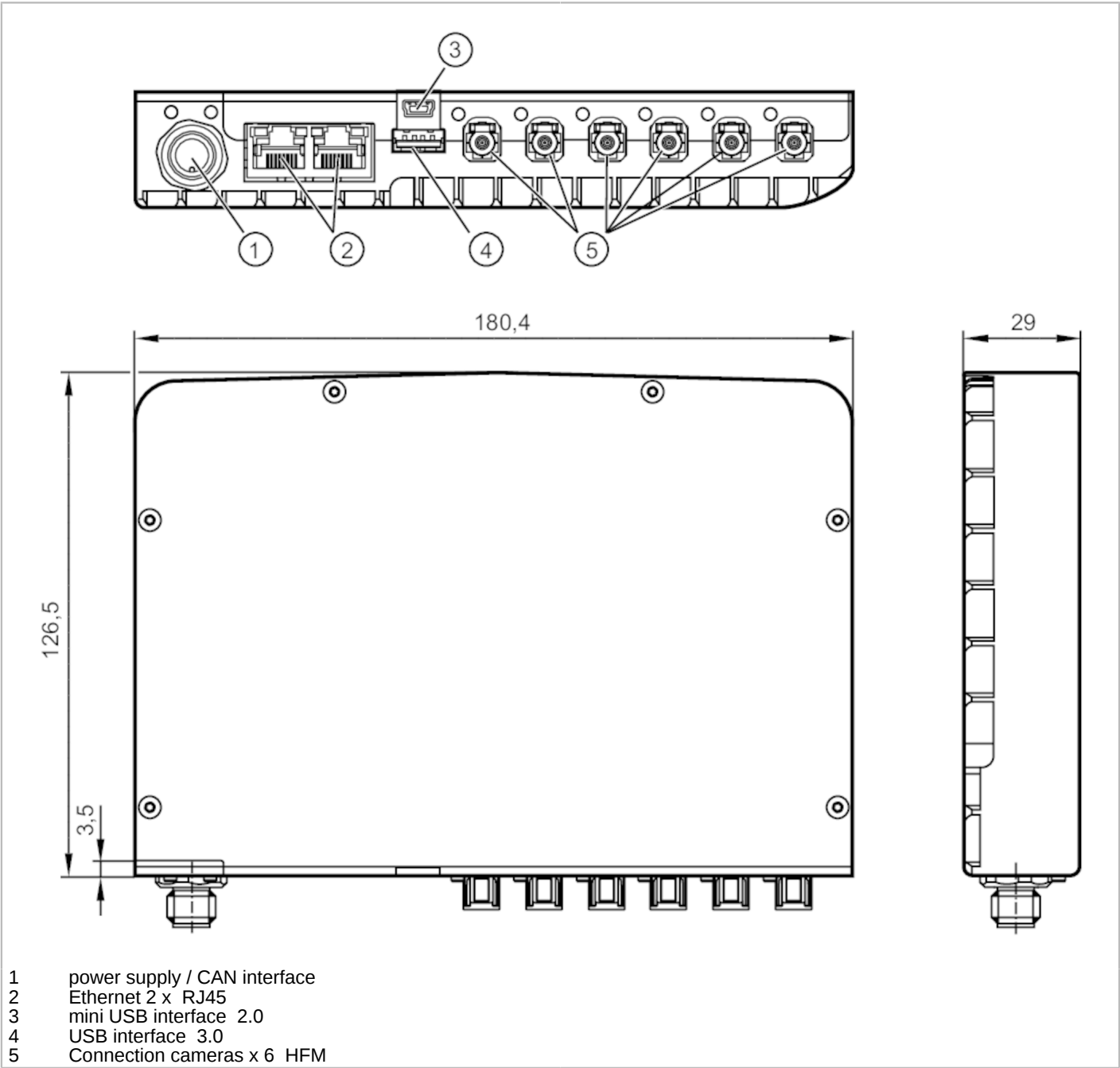


OVP800



Video processing unit (VPU)

OVPA/RO/E0/E1/NJ TX2/4GB



Application

Application

Industrial imaging

Electrical data

Operating voltage	[V]	19.2...28.8 DC
Max. current consumption	[mA]	2710; $(310 + (n \times 800))$ n = number of cameras
Power consumption	[W]	33.2; $(7,4 + n \times ((FPS \times 0,32) + 2,2))$; n = number of cameras; FPS = camera frame rate

Interfaces

Number of CAN interfaces	1
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Video processing unit (VPU)

OVPA4/RO/E0/E1/NJ TX2/4GB

Number of Ethernet interfaces		2
Number of USB interfaces		2
CAN		
Protocol		free protocol
Ethernet		
Transmission standard		1GBase-T
Transmission rate		1000 MBit/s
Protocol		TCP/IP
Factory settings		IP address: 192.168.0.69
		subnet mask: 255.255.255.0 (Class C)
		gateway IP address: 192.168.0.201
		MAC address: see type label
Sensor interface		
Transmission standard		FPD-Link
Connector type		HFM (Mini-FAKRA)
Note on interfaces		maximum number of cameras: see operating instructions
USB		
Connector type		Mini-USB; type A
Version		2.0; 3.0
Operating conditions		
Ambient temperature	[°C]	-10...40
Storage temperature	[°C]	-40...85
Protection		IP 50
Tests / approvals		
EMC	EN IEC 61000-6-4	radiation of interference / residential, commercial and light-industrial environments
	EN IEC 61000-6-2	immunity / industrial environments
Shock resistance	DIN EN 60068-2-27	50 g / (11 ms) not repetitive
	DIN EN 60068-2-27	40 g / (6 ms) repetitive
Vibration resistance	DIN EN 60068-2-6	2 g / (10...150 Hz)
	DIN EN 60068-2-64	2.3 g RMS / (10...500 Hz)
Electrical protection	DIN EN 61010-2-201	electrical supply only via PELV circuits
Mechanical data		
Weight	[g]	978.131
Dimensions	[mm]	126.5 x 29 x 180.4
Materials		housing: aluminium
Tightening torque	[Nm]	< 5.5
Hardware		
Processor	CPU: Dual-Core NVIDIA Denver 2 64 Bit ; ARM Cortex A57; GPU: NVIDIA Pascal 256 CUDA Cores (1,3 TFLOPs) SOM: Nvidia Jetson TX2 4GB Module	
Working memory	4GB 128-bit LPDDR4, 1600 MHz - 51.2 GB/s	
Mass storage	16GB eMMC 5.1 Flash	
Remarks		
Pack quantity	1 pcs.	

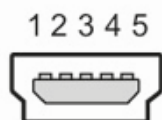


Video processing unit (VPU)

OVPA A/RO/E0/E1/NJ TX2/4GB

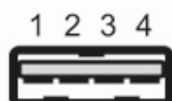
Electrical connection - USB socket

Connector: 1 x mini USB interface



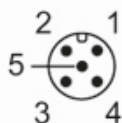
Electrical connection - USB socket Typ A

Connector: 1 x Typ A



Electrical connection - power supply / CAN

Connector: 1 x M12; coding: A



1	screen
2	24 V
3	GND
4	CAN +
5	CAN -

Electrical connection - sensor interface

Connector: 6 x HFM (Mini-FAKRA) (AMK12A-1M4Z5-A)

OVP800



Video processing unit (VPU)

OVPA A/RO/E0/E1/NJ TX2/4GB

Other data

Connection

	Port 0	Port 1	Port 2	Port 3	Port 4	Port 5
example 1	camera 1 (3D)	camera 2 (3D)	camera 1 (2D)	camera 2 (2D)	camera 3 (3D)	camera 4 (3D)
example 2	camera 1 (2D)	camera 2 (2D)	camera 1 (3D)	camera 2 (3D)	camera 3 (2D)	camera 4 (2D)
example 3	camera 1 (3D)	camera 2 (3D)	camera 3 (3D)	camera 4 (3D)	camera 5 (3D)	camera 6 (3D)

ports 0 and 1, 2 and 3, 4 and 5 must be assigned to the same type of image sensor.

please note the different 3D image sensor types 38k and VGA when connecting the cameras.