

MV-GQ1000

50 Gbps Fiber Port Frame Grabber



Introduction

MV-GQ1000 series fiber port frame grabber adopts XoFLink protocol, and its QSFP28 port can be connected to one camera via its pluggable QSFP28 optical module. It is applicable to area scan cameras with QSFP28 ports.

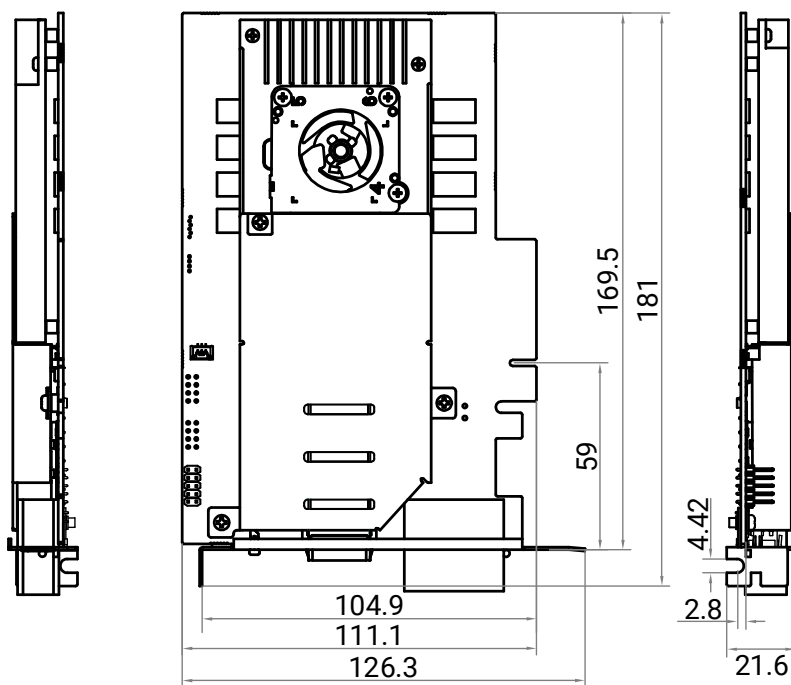
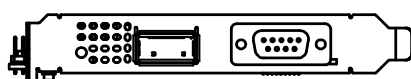
Available Model

MV-GQ1001

Key Feature

- Provides one QSFP port to transmit data with max. bandwidth of 50 Gbps.
- Various indicators indicate frame grabber status in real time.
- Adopts multiple I/O connectors for input and output.
- Provides SDK for secondary development.

Dimension



Unit: mm

Specification

Model	MV-GQ1001
Memory	
On-board memory	8 GB DDR4-RAM
Host interface	
Interconnect	PCI-E gen3 × 8
Delivery bandwidth	7800 MB/s (max. transmission bandwidth) 6700 MB/s (sustained transmission bandwidth)
Bus indicator	1
Camera interface	
Standard	XoFLink
Optical module interface	QSFP28 × 1
Data interface	MPO fiber port
Camera type supported	Cameras with QSFP28 ports
Camera quantity supported	1 (50 Gbps for one frame grabber, 100 Gbps for 2 frame grabbers)
Camera connection speed	50 Gbps
Stream	2
Stream indicator	1 pair
Processing feature	
Pixel format	Mono 8/10/12 Bayer 8/10 RGB 8
GPIO	
I/O Type	Provides 8 configurable I/O connectors, compatible with single-ended/differential signals. - Line 0/1/4/5/6/7 supports input (3.3 V to 12 V) and output (3.3 V to 24 V) - Line 2/3 supports input and output (3.3 V to 24 V)
Connector	DB9 and built-in pin header
Electrical feature	
Power consumption	Typ. 18.5 W
Mechanical	
Dimension	181 mm × 126.3 mm × 21.6 mm (7.1" × 5.0" × 0.9")
Temperature	Working temperature: 0 °C to 60 °C (32 °F to 140 °F) Storage temperature: -20 °C to 70 °C (-4 °F to 158 °F)
Humidity	10% RH to 95% RH (no condensation)
General	
Client software	MVS
Operating system	Windows 7/10/11, Ubuntu 16.04 to 20.04 on Linux
Certification	CE, KC, RoHS