

MV-GE1000

4-Channel GigE Frame Grabber



GEN*i*CAM

GigE
VISION

Introduction

MV-GE1000 GigE frame grabber supports GigE protocol. The frame grabber's 4 GigE interfaces can be connected to 4 cameras at most. It has on-board memory to process images, which reduces CPU loads substantially. The frame grabber supports decompressing HB (High Bandwidth) images of Hikrobot's cameras without losses.

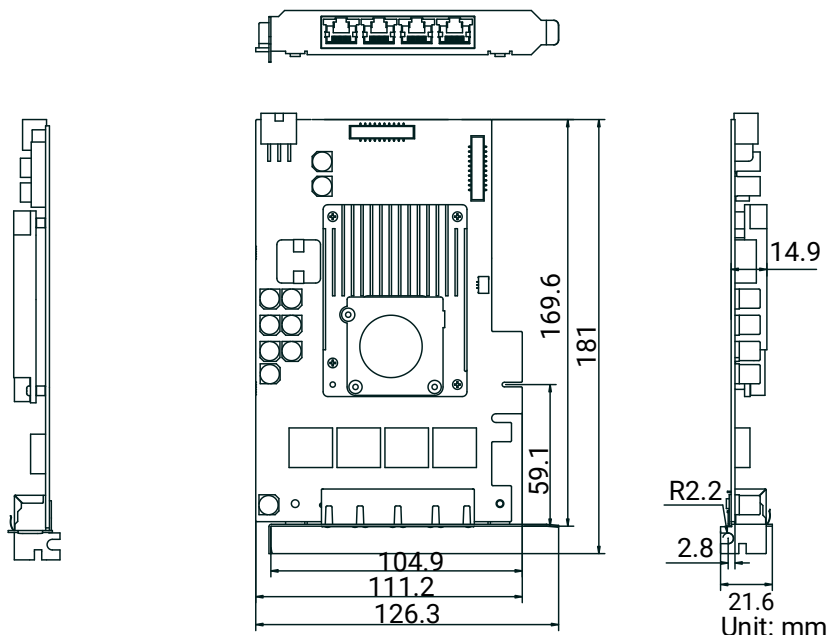
Available Model

MV-GE1004

Dimension

Key Feature

- Supports GigE Vision protocol with each GigE interface accessing up to 1 Gbps data transfer speed.
- Supports PoE with each channel providing 15 W at most.
- Various indicators indicate frame grabber status in real time.
- Adopts multiple I/O connectors for input and output.
- Provides SDK for secondary development.
- Complies with GenIcam standard.



Specification

Model	MV-GE1004
Memory	
On-board memory	1 GB DDR3-RAM
Host interface	
Interconnect	PCI-E gen2 × 4
Delivery bandwidth	1720 MB/s (max. transmission bandwidth) 1600 MB/s (sustained transmission bandwidth)
Indicator	1
Camera interface	
Standard	GigE Vision
Interface	RJ45 × 4
Power output	PoE, each channel provides 15 W at most (ATX 6-pin power required for PoE)
Camera type supported	GigE industrial camera
Camera quantity supported	4 at most
Camera connection speed	1 Gbps
Stream	4
Stream indicator	4 pairs
Processing feature	
Pixel format	Mono 8/10/10p/12/12p Bayer 8/10/10p/12/12p YUV422Packed, YUV422_YUYV_Packed RGB 8, BGR 8
Jumbo frame	9 KB
GPIO	
I/O Type	Provides 24 I/O connectors, including opto-isolated input × 4 (4.5 VDC to 28 VDC), opto-isolated output × 4 (4.5 VDC to 28 VDC), RX422 input × 4, TX422 output × 4, TTL input × 4, and TTL output × 4
Connector	Female header
Electrical feature	
Power consumption	Typ. 10 W (without PoE)
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	WEEE, RoHS, REACH