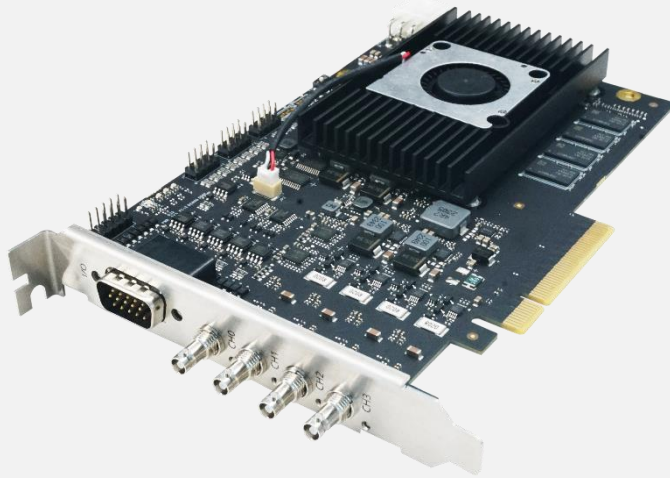


# MV-GY1000

## CXP-12 Frame Grabber



GEN*i*CAM

### Introduction

MV-GY1000 CXP-12 frame grabber supports CXP-12 protocol. The frame grabber's HD-BNC connectors can be connected to 1 to 4 cameras, and its each channel supports accessing up to 12.5 Gbps data transfer speed.

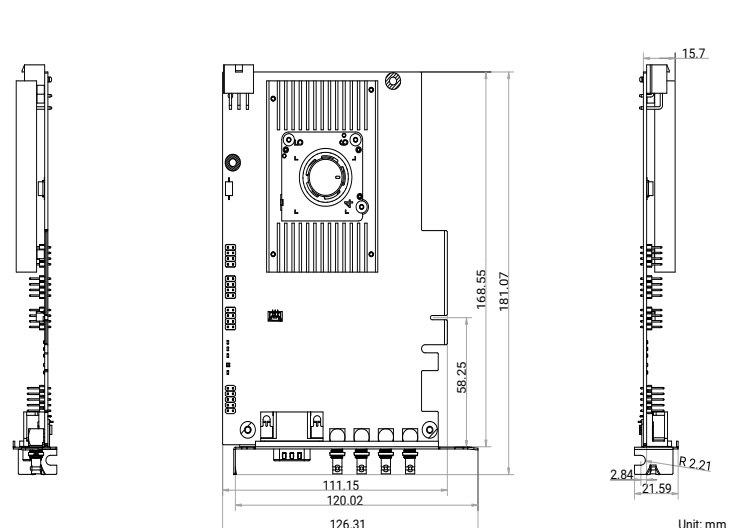
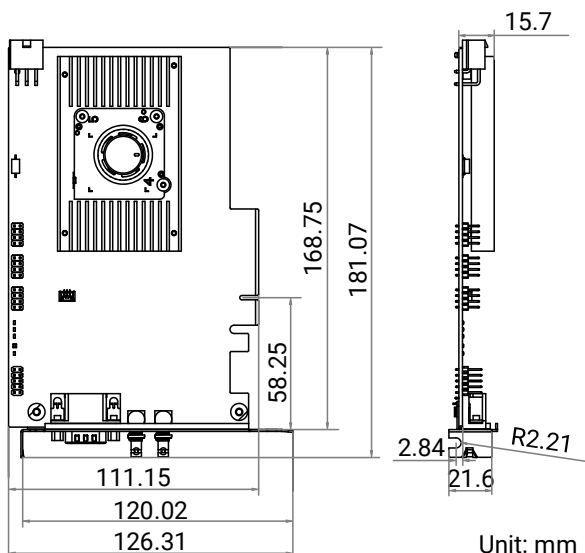
### Available Model

2 GB memory and 2-channel: MV-GY1002  
4 GB memory and 4-channel: MV-GY1004

### Key Feature

- Supports CXP-12 protocol with each channel accessing up to 12.5 Gbps data transfer speed.
- Supports PoCXP with each channel providing 13 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.

### Dimension



## Specification

Model	MV-GY1002	MV-GY1004
Memory		
On-board memory	4 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	CoaXPress 2.1	
Interface	HD-BNC × 2	HD-BNC × 4
Power output	PoCXP, each channel provides 13 W @ 24 VDC at most	
Camera type supported	CXP-6/CXP-12 connector industrial camera	
Camera quantity supported	2 at most, supports connecting 1 to 2 camera(s)	4 at most, supports connecting 1 to 4 camera(s)
Camera connection speed	1.25/2.5/3.125/5/6.25/10/12.5 Gbps (CXP-1/2/3/5/6/10/12)	
Stream	2	4
Stream indicator	2	4
Processing feature		
Pixel format	Mono 8/10/12/16 Bayer 8/10/12 RGB 8	
GPIO		
I/O Type	Configurable input/output × 11, compatible with single-ended/differential <ul style="list-style-type: none"><li>I/O on bracket: Line 0 to Line 6 supports input and output (3.3 V to 24 V).</li><li>I/O on PCB: Line 7 to Line 10 supports input and output (3.3 V to 24 V).</li></ul>	
Connector	<ul style="list-style-type: none"><li>Connector of I/O on bracket: DB15 male connector</li><li>Connector of I/O on PCB: 9-pin header (2.54 mm interval, 2 × 5, 10-pin hole)</li></ul>	
Electrical feature		
Power consumption	Typ. 15.7 W (without PoCXP)	Typ. 16.8 W (without PoCXP)
Mechanical		
Dimension	181 mm × 126.3 mm × 21.6 mm (7.1" × 5.0" × 0.9")	
Temperature	Working temperature: 0 °C to 55 °C (32 °F to 131 °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 18.04 to 24.04 on Linux	
Certification	CE, RoHS, KC	