

MV-VC2140

Vision Controller



Introduction

MV-VC2140 vision controller adopts Intel® Alder Lake-N processor, and supports 16-channel GPIO and 4-channel light source control. It has multiple interfaces, such as, GigE, USB 2.0, and USB 3.0. The vision controller has compact structure with stable performance, and it provides solutions for simple vision applications.

Key Features

- Adopts Intel® Alder Lake-N processor to provide calculation.
- Supports GPIO function.
- Supports 4-channel light source control.
- Adopts GigE interfaces for stable data transmission.
- Built-in USB interface or dongle is optional.

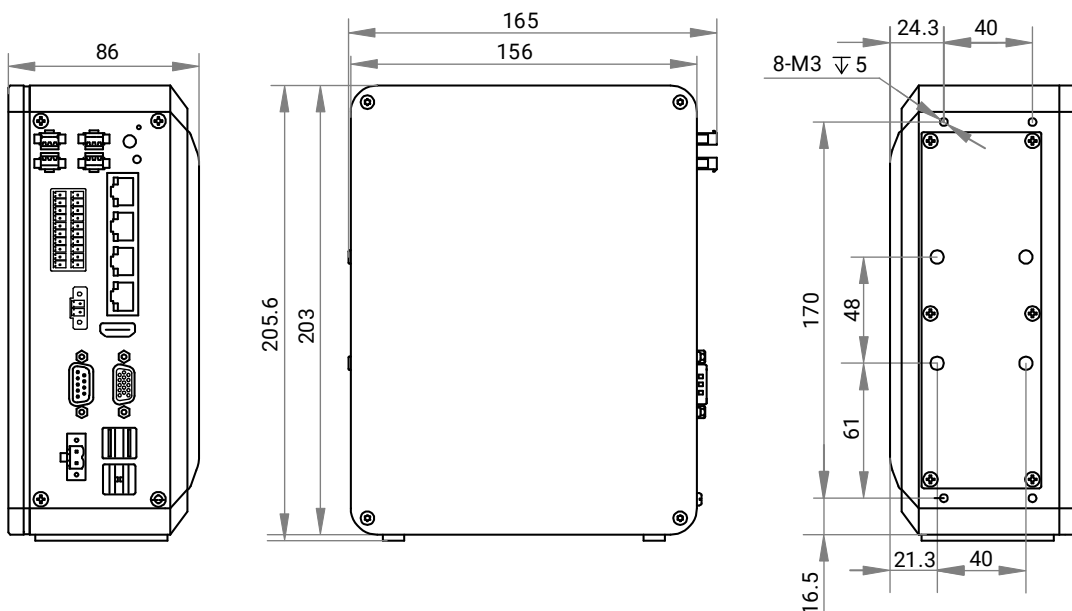
Available Model

- MV-VC2140-128G40-NN (128 GB SSD)
- MV-VC2140-128G40-1T (128 GB SSD + 1 TB HDD)
- MV-VC2143-128G40-NN (128 GB SSD + PoE)
- MV-VC2143-128G40-1T (128 GB SSD + 1 TB HDD + PoE)

Applicable Industry

Consumer electronics, food and pharmaceutical, machining, etc.

Dimension



Unit: mm

Specification

Model	MV-VC2140-128G40-NN	MV-VC2140-128G40-1T	MV-VC2143-128G40-NN	MV-VC2143-128G40-1T
Performance				
CPU	Intel® Processor N97			
Memory	8 GB			
Storage	128 GB SSD	128 GB SSD + 1 TB HDD	128 GB SSD	128 GB SSD + 1 TB HDD
GPU	Intel® UHD Graphics			
Operating system	Unactivated 64-bit Windows 10 LTSC 21H2			
External interface				
Video output	HDMI interface × 1, VGA interface × 1 Supports independent display outputs at the same time Max. resolution 1920 × 1080 @ 60 Hz			
Digital I/O	Opto-isolated input × 8 Opto-isolated output × 8			
Light interface	Light interface with 24 VDC constant voltage × 4 (Brightness is adjustable. Max. current 3 A for single light interface, and total max. power consumption 80 W. Supports light mode switching between strobe and solid via external control)			
Network interface	GigE interface × 4		GigE interface × 4, supports PoE*	
USB interface	USB 2.0 × 2 USB 3.0 × 2			
Serial port	RS-232 × 1, supports switching to RS-485 or RS-422			
Electrical feature				
Power supply	24 VDC			
Power consumption	Typ. 51 W (without light source)		Typ. 71 W (without light source)	
Mechanical				
Dimension	166 mm × 205.6 mm × 86 mm (6.5" × 8.1" × 3.4")			
Weight	Approx. 2 kg (4.4 lb.)			
Temperature	Working temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)			
Humidity	20% RH to 80% RH (no condensation)			
General				
Certification	CE, KC			

*The total loading of the 4 GigE interfaces with PoE is 20 W.