

# Industrial Products

## Machine Vision Controller TMV-7000 Series



### Features:

- Supports Intel® 6th to 9th Gen Core™ i7/i5/i3 Desktop CPU
- Equipped with Q170/C236 industrial-grade chipsets
- DP+HDMI dual 4K display interfaces, supporting synchronous/asynchronous dual display
- 4 USB 3.0 ports
- 2 DB9 serial ports
- 6 Gigabit Ethernet interfaces, with 4 optionally supporting POE
- Supports 9V~36V wide voltage power input
- Option for active or passive cooling methods



Remote Management



Status Monitoring



Remote Operations and Maintenance



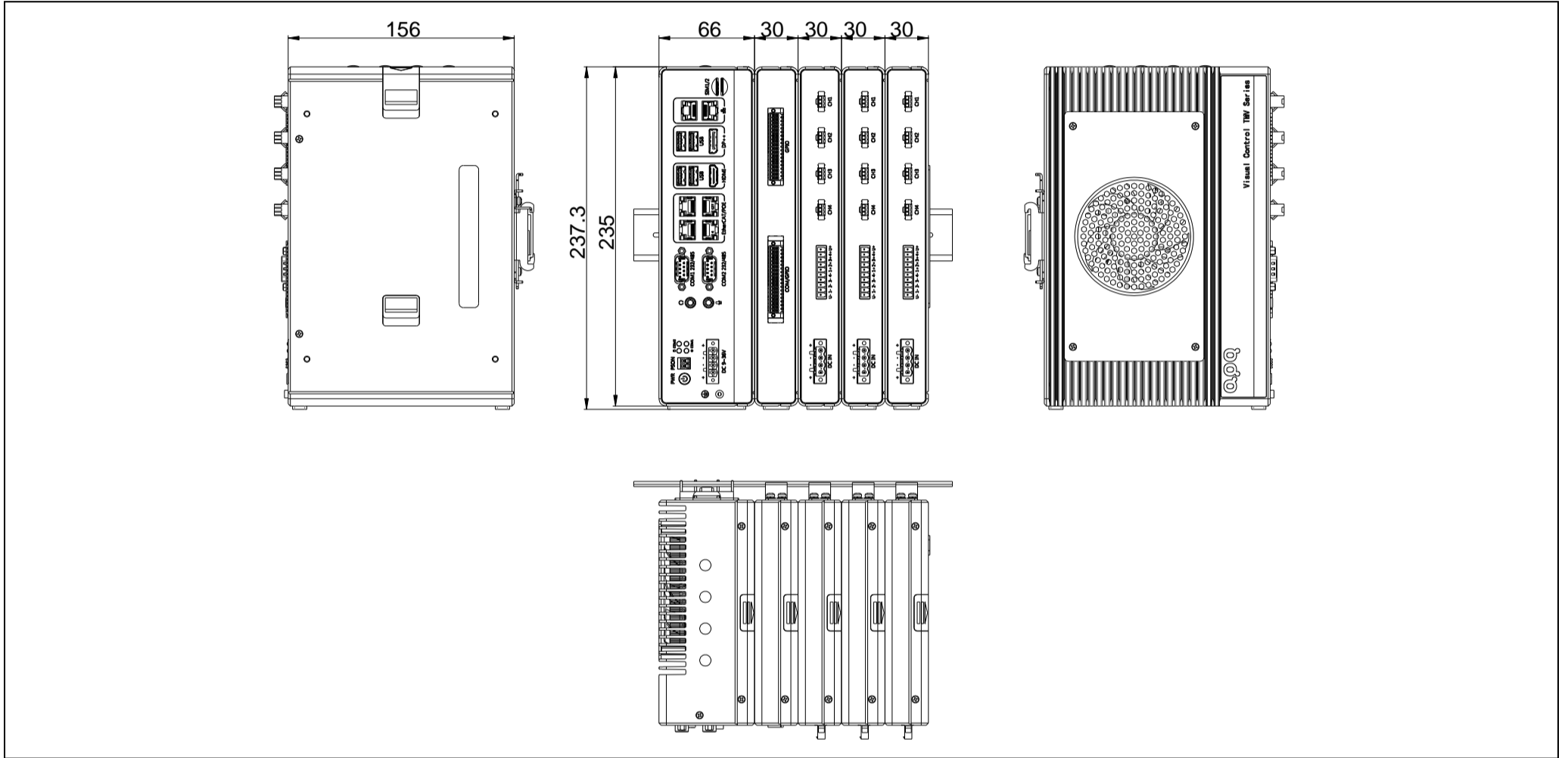
Security Control

## Product Specifications

Model		TMV-7000
CPU	CPU	Intel® 6-9th Generation Core / Pentium/ Celeron Desktop CPU
	TDP	65W
	Socket	LGA1151
Chipset	Chipset	Intel® Q170/C236
BIOS	BIOS	AMI UEFI BIOS (Support Watchdog Timer)
Memory	Socket	2 * Non-ECC SO-DIMM Slot, Dual Channel DDR4 up to 2400MHz
	Max Capacity	32GB, Single Max. 16GB
Graphics	Controller	Intel® HD Graphics
Ethernet	Controller	2 * Intel i210-AT/i211-AT;i219-LM LAN Chip ( 10/100/1000 Mbps, RJ45)
		4 * Intel i210-AT LAN Chip ( 10/100/1000 Mbps, RJ45; support POE)
Storage	M.2	1 * M.2(Key-M, support 2242/2280 SATA or PCIe x4/x2 NVME SSD)
		1 * M.2(key-M, support 2242/2280 SATA SSD)
Expansion Slots	Expansion box	①6 * COM (30pin Spring-loaded plug-in Phoenix terminals, RS232/422/485 optional (select by BOM), RS422/485 Optoelectronic isolation function optional) +16 * GPIO (36pin Spring-loaded plug-in Phoenix terminals, support 8* Optoelectronic isolation input, 8* Optoelectronic isolation output (Optional relay/opto-isolated output))
		②32 * GPIO (2*36pin Spring-loaded plug-in Phoenix terminals, support 16* Optoelectronic isolation input, 16* Optoelectronic isolation output (Optional relay/opto-isolated output))
		③4 * light source channels (RS232 control, Support external triggering, total output power 120W; The single channel supports a maximum of 24V 3A (72W) output, 0-255 stepless dimming, and the external trigger delay <10us)
		1 * Power input (4pin 5.08 Phoenix terminals with locked)
	Notes: Expansion box ①② can be expand one of the two, Expansion box③ can be expanded up to three on one TMV-7000	
	M.2	1 * M.2(Key-B, support 3042/3052 4G/5G module)
	Mini PCIe	1 * Mini PCIe (support WIFI/3G/4G)
Front I/O	Ethernet	2 * Intel® GbE(10/100/1000Mbps,RJ45) 4 * Intel® GbE(10/100/1000Mbps,RJ45, support POE function optional, support IEEE 802.3af/ IEEE 802.3at, single port MAX. to 30W, total P=MAX. to 50W)
	USB	4 * USB3.0 (Type-A, 5Gbps)
	Display	1 *HDMI: max resolution up to 3840*2160 @ 60Hz 1 * DP++: max resolution up to 4096*2304 @ 60Hz
	Audio	2 * 3.5mm Jack (Line-Out + MIC)
	Serial	2 * RS232 (DB9/M)
	SIM	2 * Nano SIM card slot (SIM1)
Rear I/O	Antenna	4 * Antenna hole
Power Supply	Type	DC,
	Power Input Voltage	9 ~ 36VDC, P≤240W
	Connector	1 * 4Pin Connector, P=5.00/5.08
	RTC Battery	CR2032 Coin Cell
OS Support	Windows	6/7 <sup>th</sup> : Windows 7/8.1/10 8/9 <sup>th</sup> : Windows 10/11
	Linux	Linux

<b>Watchdog</b>	Output	System Reset
	Interval	Programmable via Software from 1 to 255 sec
<b>Mechanical</b>	Enclosure Material	Radiator: Aluminum alloy, Box: SGCC
	Dimensions	235mm(L) * 156mm(W) * 66mm(H) without expansion box
	Weight	Net: 2.3 kg Expansion box Net: 1kg
	Mounting	DIN rail /Rack mount / Desktop
<b>Environment</b>	Heat Dissipation System	PWM FAN Cooling
	Operating Temperature	-20~60°C (Industrial SSD)
	Storage Temperature	-40~80°C (Industrial SSD)
	Relative Humidity	10 to 90% RH (non-condensing)
	Vibration During Operation	With SSD: IEC 60068-2-64 (3Grms@5~500Hz, random, 1hr/axis)
	Shock During Operation	With SSD: IEC 60068-2-27 (30G, half sine, 11ms)

### Product Dimensions



### Product I/O

