

M60A

Low-power and High-Performance Fanless Embedded System

M60A is a low-power and high-performance fanless embedded product. The chassis of the product is cast from aluminum alloy, featuring a compact structure and fanless design. It has excellent sealing, dustproof, heat dissipation and vibration resistance performance, making it suitable for use in harsh environments with high levels of pollution, heavy dust, and severe electromagnetic interference. The product utilizes IntelC236/ H110/Baytrail and other platform technology solutions, supporting Intel®Core™ 6/7/8/9 CPU, multiple Gigabit LAN port, and PCI/PCIE extension. The complete PC offers comprehensive functionality and strong environmental adaptability, making it suitable for mid-to-high-end customer requirements. It can be widely applied in various embedded fields such as machine vision, autonomous driving, highway lane control, mechanical inspection equipment, and industrial automation control.



Product Features



Fully sealed
and fanless



Low power
consumption and
high performance

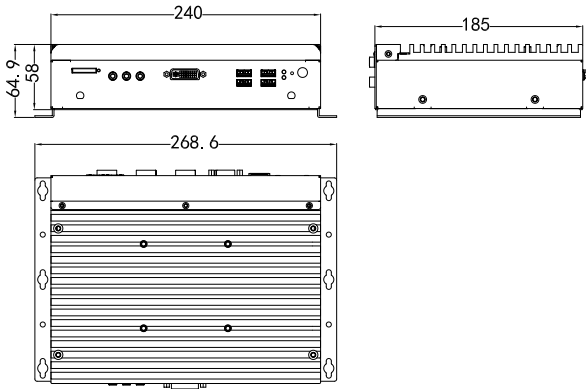


Operating in a
wide temperature
range



Rich and
expandable port

Product Dimensions Drawing



(Please refer to the user manual to check detailed specifications and dimensions) (unit: MM)

Product Specifications

Item		Description		
System Configuration	Processor	M60A-E: Intel® Celeron J1900 2.0Ghz quad-core, onboard processors which are non-replaceable		
	Chipset	M60A-H: Intel® H110/C236: supports 6/7/8 Gen Intel® Core™ I3/I5/I7 series; supports 9th Gen Intel® Core™ I3/I5 series, LGA1151, CPU TDP ≤65W		
		M60A-E: Intel® BayTrail		
I/O Port	Memory	M60A-H: Intel® H110/C236		
	LAN Port	M60A-E (BayTrail): supports 1x 204Pin DDR3L SO-DIMM slot, up to 8GB, with 8G DDR3L memory requiring chips on both sides		
		M60A-H (H110/C236): supports 2x 260Pin DDR4 SO-DIMM memory slot, with 1 slot supporting up to 32GB and the PC supporting up to 64GB		
	Display	2/4/6 x RJ45 10/100/1000Mbps LAN port optional		
	USB	M60A-E (BayTrail)/M60A-H(H110): supports any two displays of VGA, HDMI and DVI-D, but does not support three displays simultaneously		
		M60A-H (C236): supports independent and simultaneous three displays of VGA, HDMI and DVI-D		
Expansion Bus	COM	M60A-E (BayTrail): 1 x USB3.0 + 7 x USB2.0 port		
	GPIO	M60A-H(H110): 4 x USB3.0+4 x USB2.0 port		
		M60A-H (C236): 8 x USB3.0 port		
	Audio	Optional 4/5/6 serial ports. COM1~COM6 support optional RS232/485/422 (MAX), and the expansion box can have up to 10 COM ports. The 4 serial ports of the expansion box are in RS-232 mode		
		1 x 8-channel GPIO (1 × 10 Phoenix terminals)		
	Motherboard Integration	1 group of audio ports (supporting MIC-IN, LINE-IN and LINE-OUT)		
		1 x M-SATA slot (for 4G or storage)		
		1 x SIM card slot, supporting external SIM card for easy installation		
		1 x M.2 key E slot (for WIFI function)		
		M60A-H (C236): supports 1 x M.2 keyM (PCIe X4 signals)		
Storage	Expansion Box	M60A-H (H110): supports 1 x M.2 keyM (PCIe X1 signal)		
		Dual expansion card I: 2x PCI (optional)		
		Dual expansion card II: 1 x PCI + 1x PCIe x 16 (optional)		
		Quad-expansion cards I: 4x PCI (optional)		
		Adapting to M60A-H (H110/C236): PCIe slot for PCIe3.0 x16 signals		
Working Environment	Hard Disk	Adapts to M60A-E (J1900): PCIe slot for PCIe3.0 x1 signals		
	MSATA M.2	Remarks: PCI slot supports PCI2.3 standard; the size supported by PCI card is 106.68mm high and 174.63mm long, and that of PCIe card is 106.68mm high and 167.65mm long		
		Provides 2x SATA interface, supports 2x 2.5-inch laptop hard disks and hot swap function		
		Provides 1x M-SATA slot		
Storage Environment	Installation Method	M60A-H (C236): supports 1 x M.2 keyM (PCIe X4 signal)		
		M60A-H (H110): supports 1 x M.2 keyM (PCIe X1 signal)		
		CPU power consumption	With hard disk drive (HDD)	With the solid state/electronic hard disk
		CPU TDP<35W	0°C~+45°C	-10°C~+60°C
Product Dimensions	Power Supply	CPU TDP=35W	0°C~+40°C	-10°C~+60°C
		35W<CPU TDP≤65W	0°C~+40°C	-10°C~+50°C
		Note: The air flow rate in the working environment of the PC depends on the specific configuration.		
		Without the expansion box:		
Power Supply	Product Dimensions	M60A-E: 240mm (W) × 185mm (D) × 58mm (H)		
		M60A-H: 240mm (W) × 185mm (D) × 78mm (H)		
		With the expansion box:		
		M60A-E-2P: 240mm (W) × 196.8mm (D) × 113mm (H)		
Power Supply	Power Supply	M60A-H-2P: 240mm (W) × 196.8mm (D) × 133mm (H)		
		1 x 4Pin Phoenix terminal power port		
		External AC 220V power adapter or DC 9-36V wide voltage input (optional):		
		M60A-H (Intel® H110/C236): Standard configuration DC 19V single power supply (optional 9VDC-36VDC wide voltage module)		
Power Supply	Power Supply	M60A-E (Intel® BayTrail): Standard configurationDC 12V single power supply (optional 9VDC-36VDC wide voltage module)		

Note: EVOC Intelligent reserves the right to final interpretation of product specifications and ordering information etc.