

Intel® Core™ i Fanless Box Computer with 6 x COM (4 x RS-232/485) with Isolation, 2 x PCIe

Overview

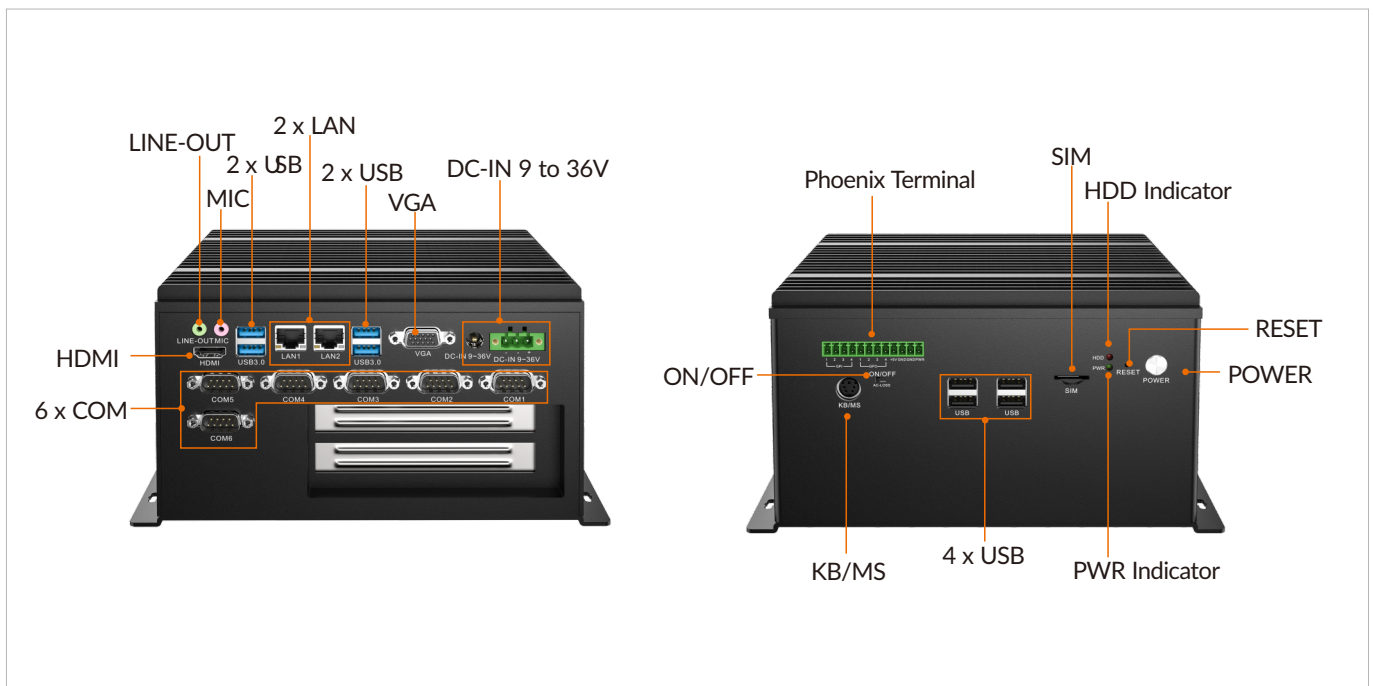
The MBC-7102 fanless industrial computer features a cableless design, ensuring excellent resistance to vibrations and interferences. Its modular design, featuring a CPU board that plugs into an I/O board, not only reduces the time and cost required for product updates but also allows for easy customization to meet specific customer application needs. Moreover, the MBC-7102 provides a wide range of I/O interfaces, including isolated COM, USB, GbE LAN, GPIO, DIO, as well as Mini PCIe and PCIe expansion slots for WiFi or other advanced expansions.

Features

- Intel® Core™ i3/i5/i7 processor
- 6 x COM (4 x RS-232/485) with isolation
- 2 x LAN, 8 x USB, VGA, HDMI
- 1 x 2.5" SATA HDD/SSD, 1 x mSATA
- 1 x Full length Mini PCIe, 2 x PCIe
- 9~36VDC power input



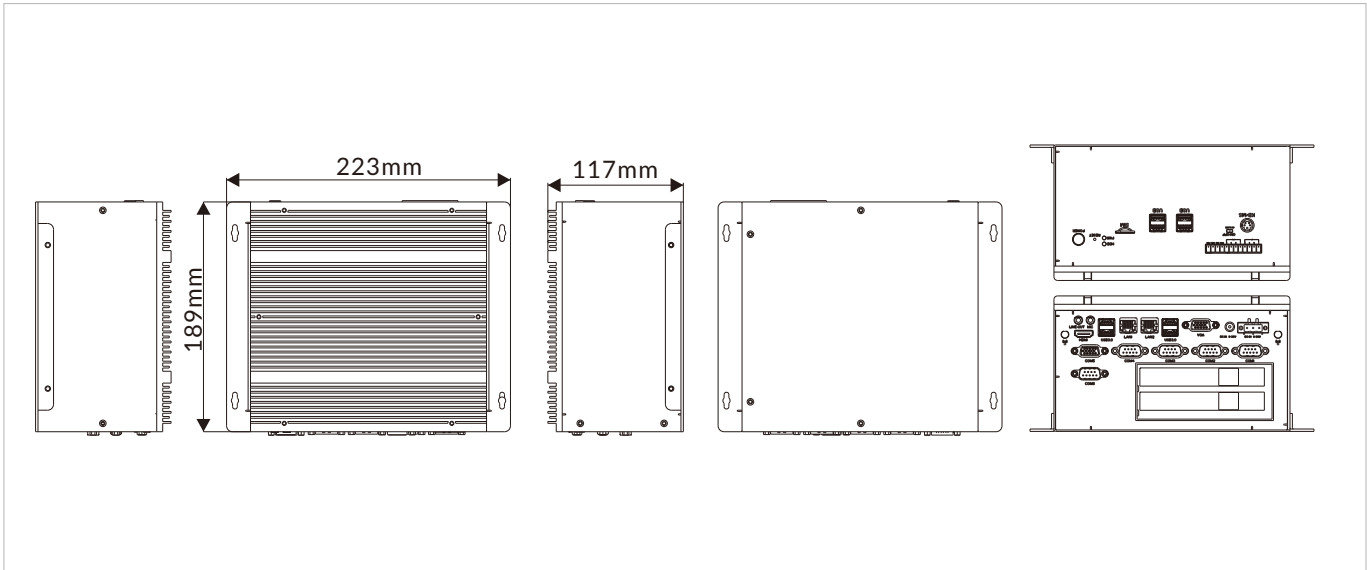
I/O Interfaces



Specifications

System	MBC-7102-6300U	MBC-7102-8265U	MBC-7102-8565U
CPU	Intel® Core™ i5-6300U	Intel® Core™ i5-8265U	Intel® Core™ i7-8565U
CPU TDP	15W		
Memory	2 x DDR4 2133 MHZ SO-DIMM up to 32GB	2 x DDR4 2400 MHZ SO-DIMM up to 32GB	
Storage	1 x 2.5" SATA HDD 1 x mSATA		
BIOS	AMI UEFI		
Watchdog Timer	Software programmable. Supports 256 levels system reset		
I/O Ports			
USB	4 x USB 2.0, 4 x USB 3.0		
Serial	6 x COM (COM1/2 supports RS-232, COM3/4/5/6 supports RS-232/485) with isolation		
Ethernet	2 x RJ45 GbE Intel® I210AT		
Display	1 x VGA, 1 x HDMI		
SIM Card Slot	1 x SIM card slot		
DIO	4 x DI, 4 x DO		
PS/2	1 x PS/2 keyboard mouse		
Antenna	2 x SMA antenna holes		
Expansion Slot			
PCI/PCIe	1 x PCIe x1, 1 x PCIe x4		
Mini PCIe	1 x Full length Mini PCIe		
RF Communication			
Wi-Fi	Mini PCIe expansion (optional)		
Cellular	Mini PCIe expansion (optional)		
Bluetooth	Mini PCIe expansion (optional)		
GNSS	Mini PCIe expansion (optional)		
Audio			
Audio	Mic in, line out		
Power			
Button	Yes		
Remote Power On/Off	2-pin remote switch		
DC Input	9~36VDC		
Power Mode	AT/ATX		
Operating System			
Windows	Windows 7, Windows 10	Windows 10	
Linux	Ubuntu		
Mechanical			
Dimensions (W x D x H)	223 x 189 x 117mm (8.78 x 7.44 x 4.61 inches)		
Weight (N.W.)	2.5 kg (5.51 lbs)		
Mounting	Wall mount		
Material	Aluminum alloy		
Environment			
Operating Temperature	-10 to 60°C(14 to 140°F)		
Storage Temperature	-20 to 60°C(-4 to 140°F)		
Relative Humidity	10% to 95% @ 40°C (104°F), non-condensing		
Certification			
EMC	CE, FCC Class A		

Dimensions



Optional Accessories

Part No.	Description
A.02.001.000022	AC/DC power adaptor 60W 12V 5A
C.02.009.000039	AC/DC power adaptor 84W 12V 7A

Ordering Information

Part No.	Description
MBC-7102-6300U	Core™ i5-6300U MBC with 6x COM (4x RS-232/485), 2x LAN, 8x USB, 1x VGA, 1x HDMI, 1x SIM socket, 2x PCIe, 9 to 36VDC
MBC-7102-8265U	Core™ i5-8265U MBC with 6x COM (4x RS-232/485), 2x LAN, 8x USB, 1x VGA, 1x HDMI, 1x SIM socket, 2x PCIe, 9 to 36VDC
MBC-7102-8565U	Core™ i7-8565U MBC with 6x COM (4x RS-232/485), 2x LAN, 8x USB, 1x VGA, 1x HDMI, 1x SIM socket, 2x PCIe, 9 to 36VDC