

Intel® Celeron®/Core™ i Fanless Box Computer with 6x COM (2x RS-232/485), 7x USB, 2x LAN

Overview

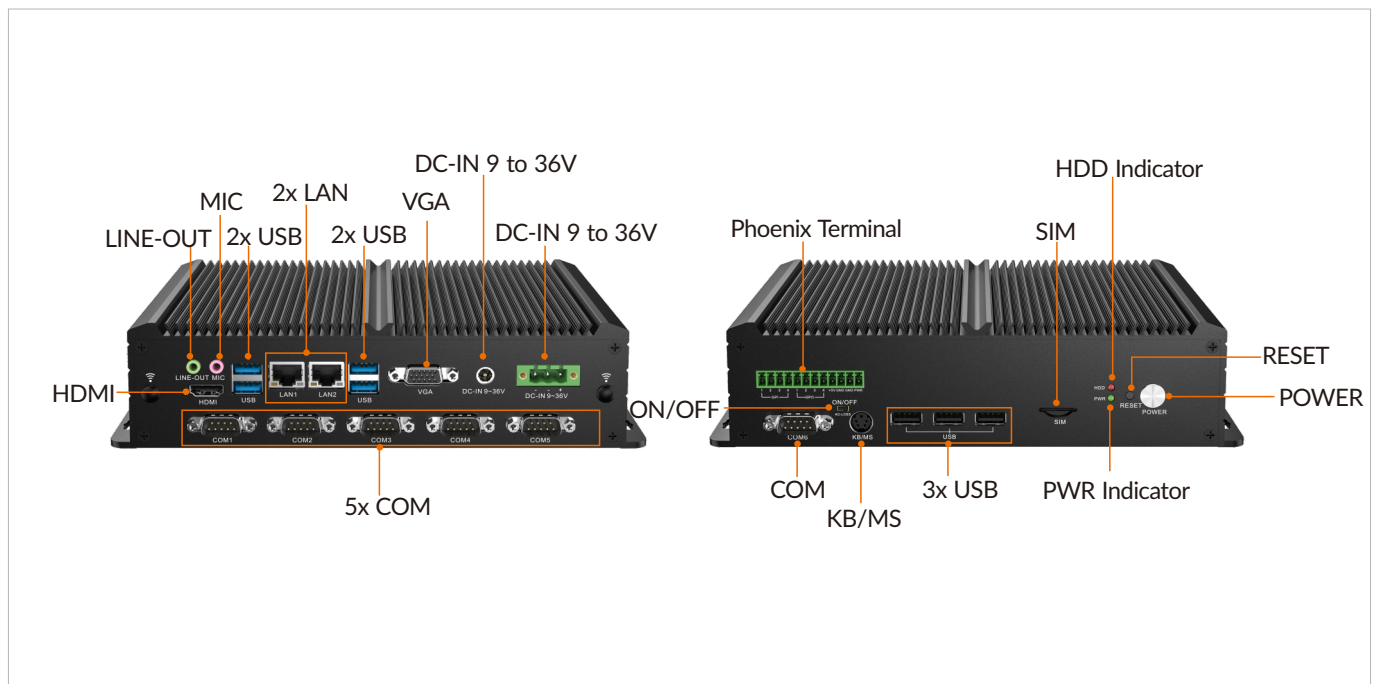
The MBC-2500 fanless industrial computer features a cableless design, ensuring excellent resistance to vibrations and interferences. Its modular design, featuring a CPU board that plugs into an I/O board, not only reduces the time and cost required for product updates but also allows for easy customization to meet specific customer application needs. Moreover, the MBC-2500 offers a wide range of I/O interfaces and expansion, including COM, GbE LAN, GPIO, WiFi, and 4G connectivity.

Features

- Intel® Celeron® Core™ i3/i5/i7 processor
- 6x COM (2x RS-232/485), 2x LAN, 7x USB, 1x VGA, 1x HDMI
- 1x 2.5" SATA HDD/SSD, 1x mSATA
- 1x Full length mini PCIe, 1x M.2 NVME
- 9 to 36VDC power input



I/O Interfaces



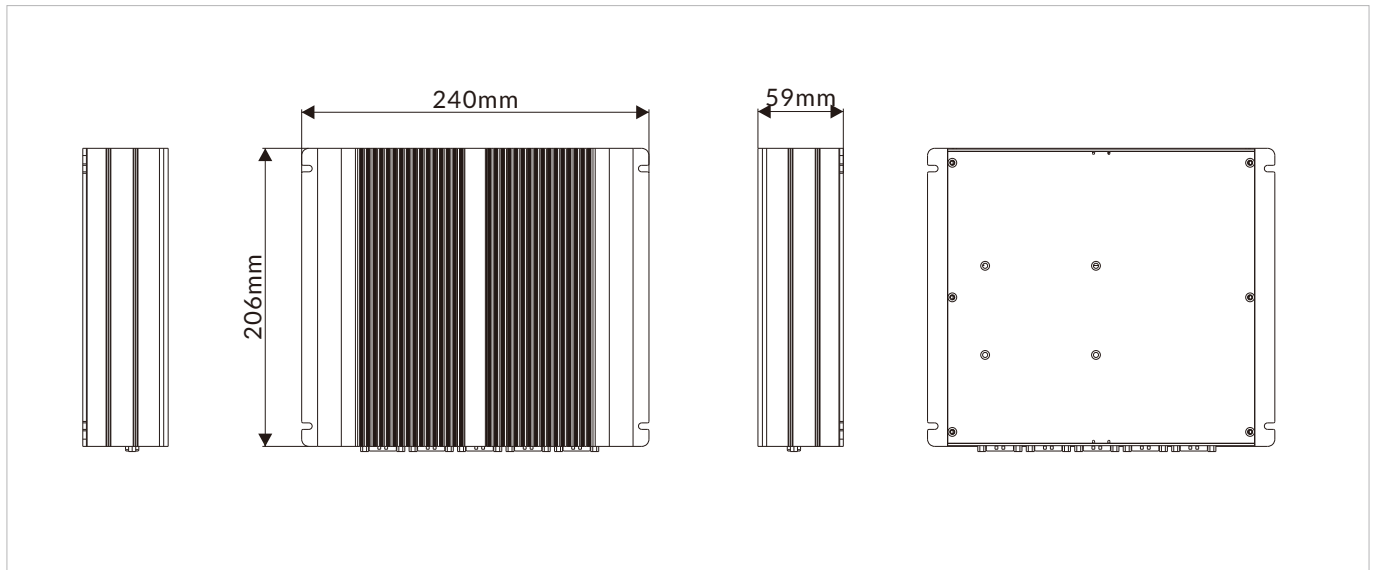
Specifications

System	MBC-2500-J1900		MBC-2500-5020U	MBC-2500-6300U
CPU	Intel® Celeron® J1900		Intel® Core™ i3-5020U	Intel® Core™ i5-6300U
CPU TDP	10W		10W	15W
Memory	1x DDR3L 1333 MHZ SO-DIMM up to 8GB			2x DDR4 2133 MHZ SO-DIMM up to 32GB
Storage	1x 2.5" SATA HDD 1x mSATA			1x 2.5" SATA HDD 1x mSATA 1 x M.2 2260/2280 NVME PCIe x4
BIOS	AMI UEFI			
Watchdog Timer	Software programmable. Supports 256 levels system reset			
I/O Ports				
USB	6x USB 2.0, 1x USB 3.0		5x USB 2.0, 2x USB 3.0	3x USB 2.0, 4x USB 3.0
Serial	6x COM (COM5/6 supports RS-232/485)			
Ethernet	2x RJ45 GbE Intel® I210AT			
Display	1x VGA, 1x HDMI			
SIM Card Slot	1x SIM card slot			
DIO	4x DI, 4x DO			
Expansion Slot				
Mini PCIe	1x Full length mini PCIe			
M.2	1 x M.2 2260/2280 NVME PCIE x4			
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 to 36VDC			
Power Mode	AT/ATX			
Operating System				
Windows	Windows 7, Windows 10			
Linux	Ubuntu			
Mechanical				
Dimensions (W x D x H)	240 x 206 x 59mm (9.45 x 8.11 x 2.32 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%~95% @ 40°C (104°F), non-condensing			
Certification				
EMC	CE, FCC Class A			

Specifications

System	MBC-2500-8145U	MBC-2500-8265U	MBC-2500-8565U
CPU	Intel® Core™ i3-8145U	Intel® Core™ i5-8265U	Intel® Core™ i7-8565U
CPU TDP	15W		
Memory	2x DDR4 2400 MHZ SO-DIMM up to 32GB		
Storage	1x 2.5" SATA HDD 1x mSATA, 1 x M.2 2260/2280 NVME PCIe x4		
BIOS	AMI UEFI		
Watchdog Timer	Software programmable. Supports 256 levels system reset		
I/O Ports			
USB	3x USB 2.0, 4x USB 3.0		
Serial	6x COM (COM5/6 supports RS-232/485)		
Ethernet	2x RJ45 GbE Intel® I210AT		
Display	1x VGA, 1x HDMI		
SIM Card Slot	1x SIM card slot		
DIO	4x DI, 4x DO		
Expansion Slot			
Mini PCIe	1x Full length mini PCIe		
M.2	1 x M.2 2260/2280 NVME PCIE x4		
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 to 36VDC		
Power Mode	AT/ATX		
Operating System			
Windows	Windows 10		
Linux	Ubuntu		
Mechanical			
Dimensions (W x D x H)	240 x 206 x 59mm (9.45 x 8.11 x 2.32 inches)		
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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-2500-J1900	Celeron® J1900 MBC with 6x COM (2x RS-232/485), 2x LAN, 7x USB, 1x VGA, 1x HDMI, 1x SIM socket, 9 to 36VDC
MBC-2500-5020U	Core™ i3-5020U MBC with 6x COM (2x RS-232/485), 2x LAN, 7x USB, 1x VGA, 1x HDMI, 1x SIM socket, 9 to 36VDC
MBC-2500-8145U	Core™ i3-8145U MBC with 6x COM (2x RS-232/485), 2x LAN, 7x USB, 1x VGA, 1x HDMI, 1x SIM socket, 9 to 36VDC
MBC-2500-6300U	Core™ i5-6300U MBC with 6x COM (2x RS-232/485), 2x LAN, 7x USB, 1x VGA, 1x HDMI, 1x SIM socket, 9 to 36VDC
MBC-2500-8265U	Core™ i5-8265U MBC with 6x COM (2x RS-232/485), 2x LAN, 7x USB, 1x VGA, 1x HDMI, 1x SIM socket, 9 to 36VDC
MBC-2500-8565U	Core™ i7-8565U MBC with 6x COM (2x RS-232/485), 2x LAN, 7x USB, 1x VGA, 1x HDMI, 1x SIM socket, 9 to 36VDC