

Intel® Celeron®/Core™ i Fanless Box Computer with 6 x COM (2 x RS-232/485), 8 x USB, 2 x LAN

Overview

The MBC-2600 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-2600 offers a wide range of I/O interfaces and expansion, including COM, GbE LAN, WiFi, and 5G/4G connectivity.

Features

- Intel® Celeron® Core™ i3/i5/i7 processor
- 6 x COM (2 x RS-232/485), 2 x LAN, 8 x USB, 1 x VGA, 1 x HDMI
- 1 x 2.5" SATA HDD/SSD, 1 x mSATA
- 1 x full length Mini PCIe, 1 x M.2 3052(5G)
- 9 to 36VDC power input



Operating Temp.



Power Input



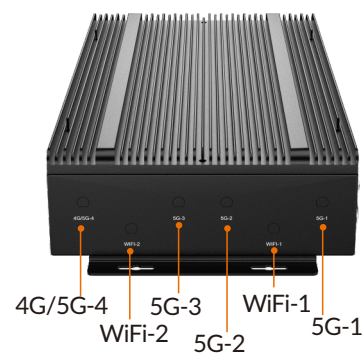
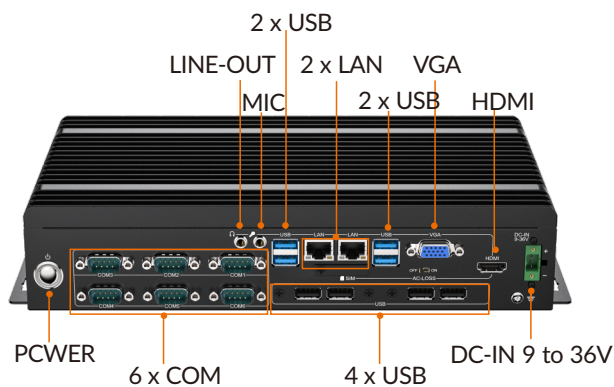
Fanless



Cableless Design



I/O Interfaces



DIN-Rail Mounting

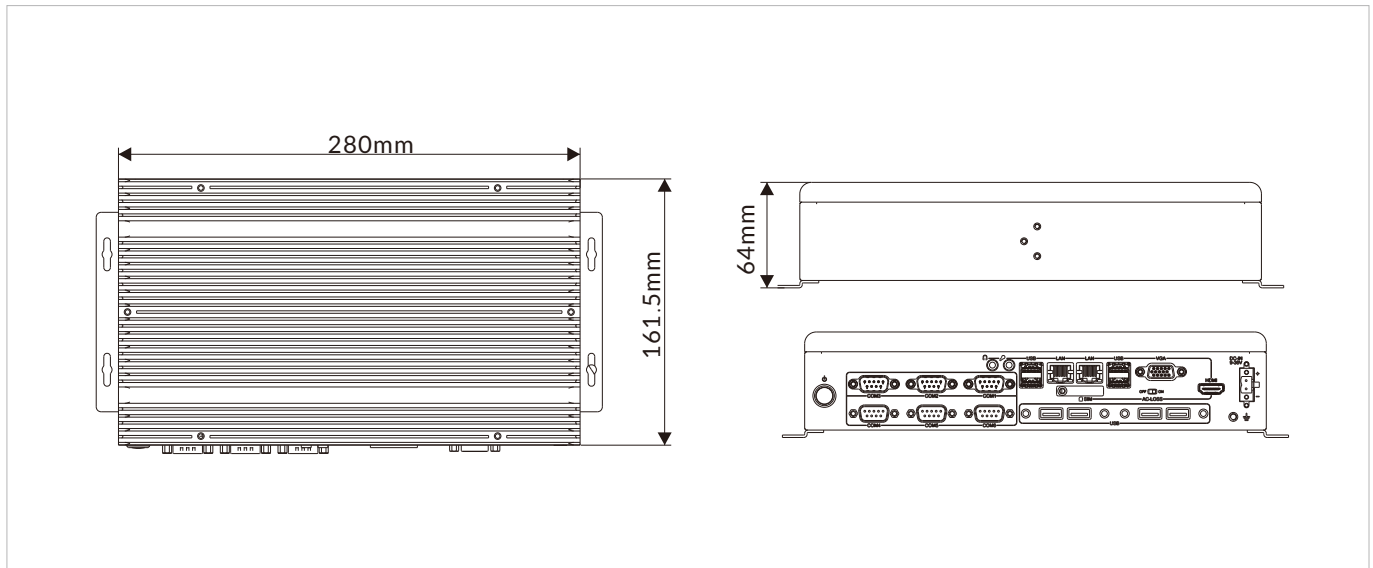
Specifications

System	MBC-2600-5020U		MBC-2600-3865U	MBC-2600-6300U
CPU	Intel® Core™ i3-5020U		Intel® Celeron® 3865U	Intel® Core™ i5-6300U
CPU TDP	10W			15W
Memory	1 x DDR3L 1333 MHZ SO-DIMM up to 8GB	2 x DDR4 2133 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	6 x USB 2.0, 2 x USB 3.0	6 x USB 2.0, 2 x USB 3.0	4 x USB 2.0, 4 x USB 3.0	
Serial	6 x COM (COM1/2 supports RS-232/485)			
Ethernet	2 x RJ45 GbE Intel® I210AT			
Display	1 x VGA, 1 x HDMI			
SIM Card Slot	1 x SIM card slot			
DIO	2 x SMA antenna holes			
Expansion Slot				
Mini PCIe	1 x Full length mini PCIe			
M.2	1 x M.2 3052			
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			
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)	280 x 162 x 60mm (11.02 x 6.38 x 2.36 inches)			
Weight (N.W.)	3 kg (6.61 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-2600-8145U		MBC-2600-8265U	MBC-2600-8565U
CPU	Intel® Core™ i3-8145U		Intel® Core™ i5-8265U	Intel® Core™ i7-8565U
CPU TDP	15W			
Memory	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-232/485)			
Ethernet	2 x RJ45 GbE Intel® I210AT			
Display	1 x VGA, 1 x HDMI			
SIM Card Slot	1 x SIM card slot			
DIO	2 x SMA antenna holes			
Expansion Slot				
Mini PCIe	1 x Full length mini PCIe			
M.2	1 x M.2 3052			
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			
DC Input	9 to 36VDC			
Power Mode	AT/ATX			
Operating System				
Windows	Windows 7, Windows 10			
Linux	Ubuntu	Windows 10		
Mechanical				
Dimensions (W x D x H)	280 x 162 x 60mm (11.02 x 6.38 x 2.36 inches)			
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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-2600-3865U	Celeron® 3865U MBC with 6x COM (2x RS-232/485), 2x LAN, 8x USB, 1x VGA, 1x HDMI, 1x SIM socket, 9 to 36VDC
MBC-2600-5020U	Core™ i3-5020U MBC with 6x COM (2x RS-232/485), 2x LAN, 8x USB, 1x VGA, 1x HDMI, 1x SIM socket, 9 to 36VDC
MBC-2600-8145U	Core™ i3-8145U MBC with 6x COM (2x RS-232/485), 2x LAN, 8x USB, 1x VGA, 1x HDMI, 1x SIM socket, 9 to 36VDC
MBC-2600-6300U	Core™ i5-6300U MBC with 6x COM (2x RS-232/485), 2x LAN, 8x USB, 1x VGA, 1x HDMI, 1x SIM socket, 9 to 36VDC
MBC-2600-8265U	Core™ i5-8265U MBC with 6x COM (2x RS-232/485), 2x LAN, 8x USB, 1x VGA, 1x HDMI, 1x SIM socket, 9 to 36VDC
MBC-2600-8565U	Core™ i7-8565U MBC with 6x COM (2x RS-232/485), 2x LAN, 8x USB, 1x VGA, 1x HDMI, 1x SIM socket, 9 to 36VDC