Expandable
Fanless Embedded System

JBC38AZ02 series

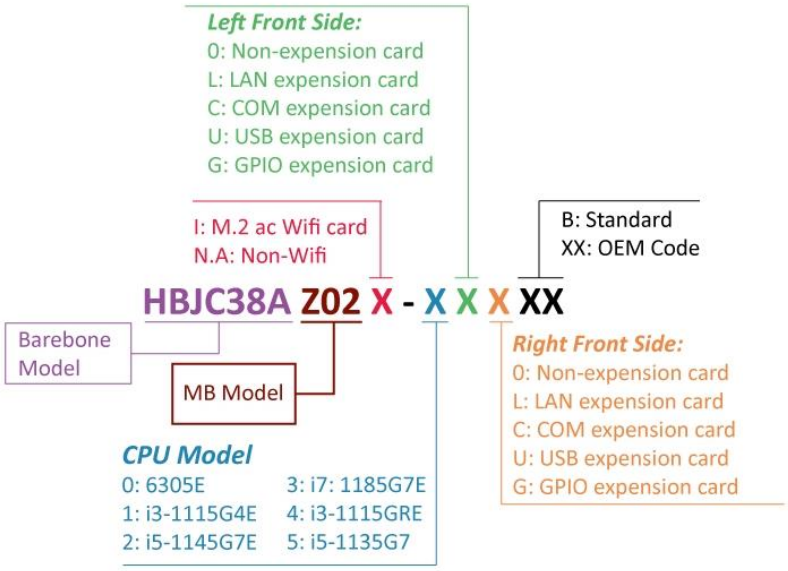
Modular Fanless & Cableless Barebone – Configurable Modules for LAN, COM, GPIO & USB



Base Specifications:

1. Planned Lifecycle through Q3'2035
2. Fanless Intel® Tiger Lake-UP3 Embedded 15W Processors, Up to 64GB Memory
3. Base MB Spec: 1*2.5GB+1*1GBE, 2*RS232, 2*USB 3.2 Gen2 Type-A, 1*USB 3.2 Gen2 Type-C (DP++), 2*USB 2.0, 1*HDMI, 1*DP, 1*MIC, 1*Line out, 3*Antenna Holes, 12-24V DC-in
4. Up to 3*4K@60Hz displays, 1*2.5" bay, M.2 SATA/PCIE 4.0 x4, M.2 for WIFI, M.2+SIM for Cellular
5. Product Dimension: 185 x 175 x 60 mm

Part Number Rule



Specifications

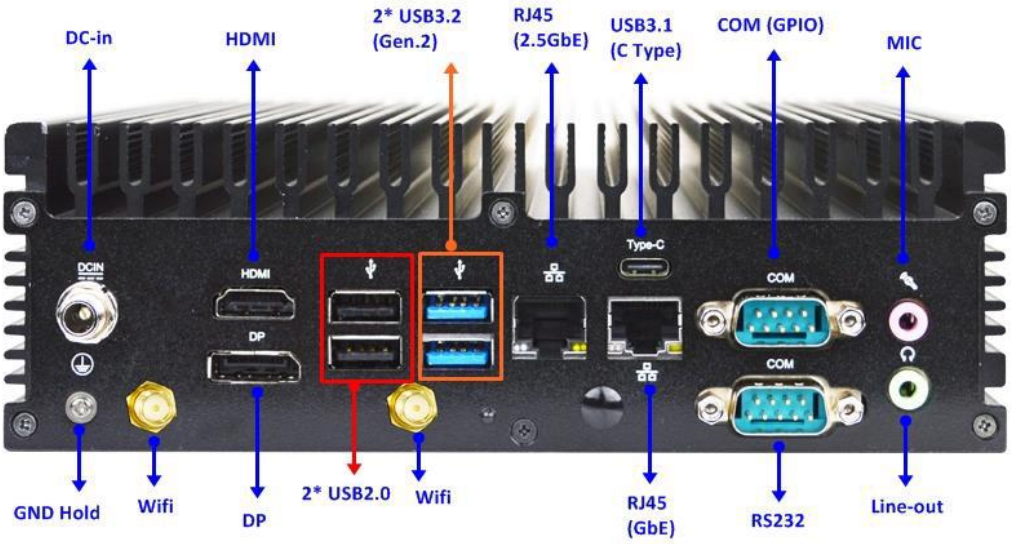
BIOS	AMI Flash ROM
CPU/Chipset	Fanless Intel® i5-1145G7E Tiger Lake-UP3 SoC 15W Processor (Call for OEM CPU Options)
Memory	2 * SO-DIMM DDR4-3200 up to 64GB max
Storage	● 1 * 2.5” SATA3 drive bay (height ≤ 10mm) ● 1 * M.2 M-key SATA/PCIE 4.0 x4 NVME 2242/2280
Network	● 1 * Intel 2.5GBE, 1 * Intel 1GBE + up to 8 additional Intel 1GBE (check models)
Expansion	● 1 * M.2 E-key 2230 (for WIFI), 1 * M.2 B-key 3042/3052 with SIM (for Cellular)
Rear Panel I/O	● 2 * USB 3.2 Gen2 Type-A ● 1 * USB 3.2 Gen2 Type-C (DP++) ● 2 * USB 2.0 ● 1 * HDMI 2.0b 4K@60Hz ● 1 * DisplayPort 1.4 4K@60Hz ● 2 * RJ45 ● 1* Line-out, 1* MIC ● 2 * Serial (RS232) ● 3 * Antenna holes ● 12-24V DC-in jack (2.5mm/5.5mm)
Front Panel I/O	● (Check models for detailed specifications) ● Power button & LED ● Two Module Slots supporting up to (2) of the following modules: ● COM (Expansion Module 4 * RS232/422/485) ● Intel Gigabit LAN (Expansion Module 4 * Intel 1GBE) ● USB 3.2 Gen1 (Expansion Module 4 * USB 3.2 Gen1) ● GPIO (Expansion Module 16bit GPIO)
Power Source	● DC 12V / 90W Adapter ● AC 90~240V input
Compliance	CE, FCC, RoHS, ErP Ready
Temperature	● Operating Temperature: -20 - 50°C (M.2 SSD), -0 - 50°C (2.5” drive) ● Storage Temperature: -20 - 85°C
Dimensions	185 (W) x 175 (D) x 60 (H) mm
OS Support	Windows 10, Windows 11, Linux
Warranty	2 Years Limited Warranty
Applications	● Industrial Control System ● Networking Appliance System

*Specifications subject to change without notice, not responsible for typographical errors. Does not include HDD or OS.

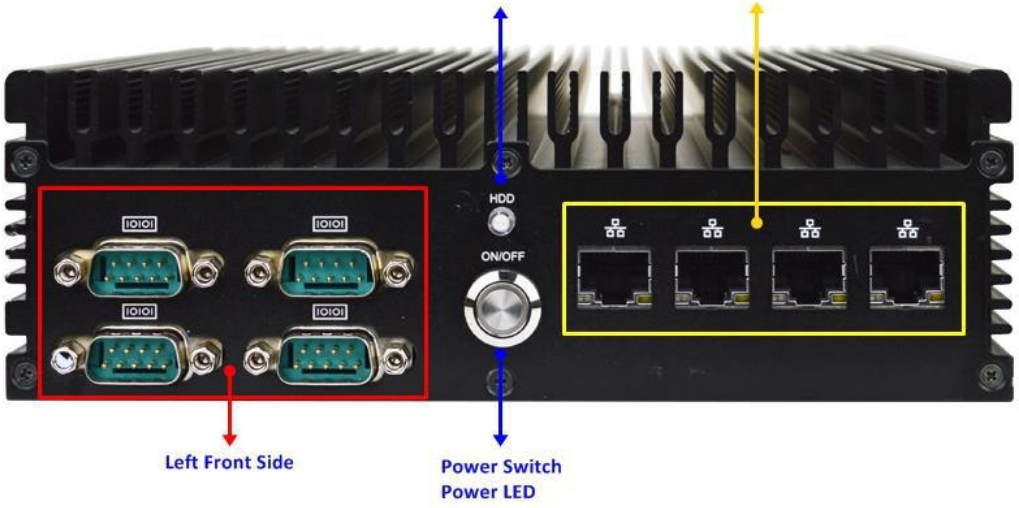
Model Number	Front Picture
● Model: **JBC38AZ02-2C0** ● **Part#: HBJC38AZ02-2C0B** ● 2-LAN, 6-COM, 3-USB3.2	
● Model: **JBC38AZ02-2CC** ● **Part#: HBJC38AZ02-2CCB** ● 2-LAN, 10-COM, 3-USB3.2	
● Model: **JBC38AZ02-2CG** ● **Part#: HBJC38AZ02-2CGB** ● 2-LAN, 6-COM, 3-USB3.2, 16bit GPIO	
● Model: **JBC38AZ02-2CL** ● **Part#: HBJC38AZ02-2CLB** ● 6-LAN, 6-COM, 3-USB3.2	
● Model: **JBC38AZ02-2CU** ● **Part#: HBJC38AZ02-2CUB** ● 2-LAN, 2-COM, 7-USB3.2, 16bit GPIO	
● Model: **JBC38AZ02-2GG** ● **Part#: HBJC38AZ02-2GGB** ● 2-LAN, 2-COM, 3-USB3.2, 32bit GPIO	
● Model: **JBC38AZ02-2GU** ● **Part#: HBJC38AZ02-2GUB** ● 2-LAN, 2-COM, 7-USB3.2, 16bit GPIO	
● Model: **JBC38AZ02-2LG** ● **Part#: HBJC38AZ02-2LGB** ● 6-LAN, 2-COM, 3-USB3.2, 16bit GPIO	

• Model: **JBC38AZ02-2LL** • **Part#: HBJC38AZ02-2LLB** • 10-LAN, 2-COM, 3-USB3.2	
• Model: **JBC38AZ02-2LU** • **Part#: HBJC38AZ02-2LUB** • 6-LAN, 2-COM, 7-USB3.2	
• Model: **JBC38AZ02-2UU** • **Part#: HBJC38AZ02-2UUB** • 2-LAN, 2-COM, 11-USB3.2	
• Model: **JBC38AZ02-20G** • **Part#: HBJC38AZ02-20GB** • 2-LAN, 2-COM, 3-USB3.2, 16bit GPIO	
• Model: **JBC38AZ02-20L** • **Part#: HBJC38AZ02-20LB** • 6-LAN, 2-COM, 3-USB3.2	
• Model: **JBC38AZ02-20U** • **Part#: HBJC38AZ02-20UB** • 2-LAN, 2-COM, 7-USB3.2	

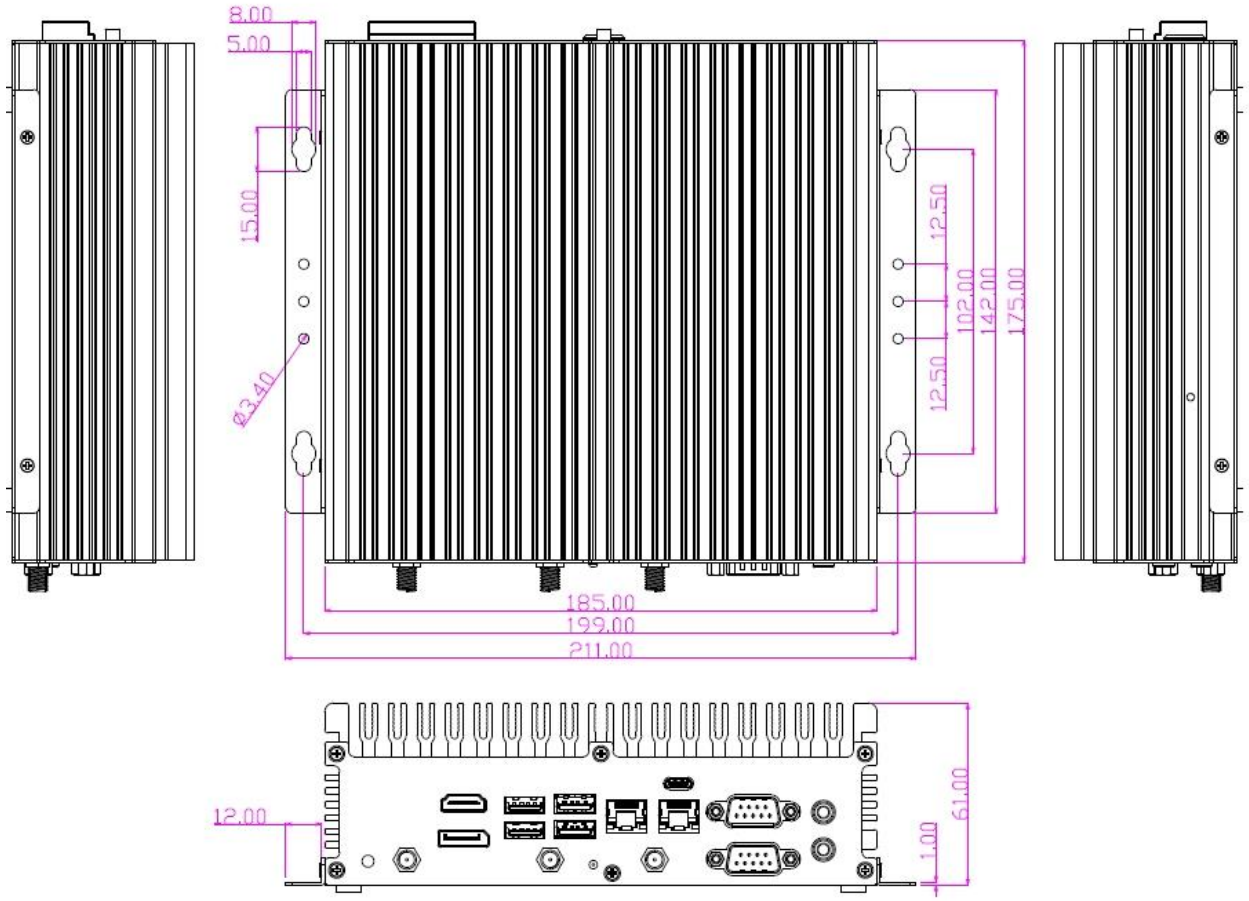
Rear



Front



Mechanical Drawings (Unit = mm)



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