



Specifications

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| System Mainboard | MBD663 |
| CPU | 13th/12th Gen Intel® Core™ i / Celeron™ series (Raptor Lake PS / Alder Lake PS) processor TDP <= 28W |
| CPU Socket | LGA1700 |
| Chipset | Integrated |
| Memory | 2x DDR5 4800 SODIMM / Max. 64GB (without ECC support) |
| Graphics | Iris® Xe, up to 96EU |
| LAN | 1x Gb LAN (Isolation/PXE support) (Intel® 226LM 2.5Gb with LAN Wakeup) |
| Expansion Slots | 1x M.2 E-Key (2230) (WiFi-6E support) (2x PCI-E x1, USB 2.0) 1x M.2 B-Key (3052) (PCI-E x1, USB 2.0, USB 3.x) (supports Sierra LTE module). Refer to MBD603 1x UIM/SIM card slot 1x M.2 M-Key (2280) (PCI-E x4) 1x M.2 NVMe (PCI-E-3.0 x4 / SATA) |
| I/O Interface | 1x HDMI 2.0 / 1x DP++ 1.4 / 1x DVI-D 3x USB 3.2 (USB Type-A) 1x USB 2.0 (USB Type-A) 1x RJ45 for Gigabit LAN 1x DB9 for RS232 serial port 2x Audio connectors for Line in/Line out 1x Power button 1x Power switch connector 1x Power jack (+12V DC) 2x LED for power & storage |
| Auto Control and Monitoring | Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min) |
| Power Requirement | +12V DC |
| Construction | Aluminum + SGCC |
| Weight | 1.5Kg(3.3lbs) |
| Chassis Color | Black & White |
| Storage | 1x M.2 M-key (2280) |
| Power Supply | 84W power adaptor |
| Mounting | Standard system bracket |
| Dimensions | 175mm(W) x 212mm(D) x 37mm(H) |
| Operating Temperature | 0°C~ 45°C (32°F~113°F) |
| Storage Temperature | -20° ~ 80°C (-4°F~176°F) |
| Relative Humidity | 10%~90% (non-condensing) |
| Vibration | M.2: 5 grms / 5~500Hz / random operation |
| Certification | CE, FCC Class-B, cULus & CCC |
| Operating System | Windows 10 IoT Enterprise RS5 64-bit Linux Ubuntu 64-bit |

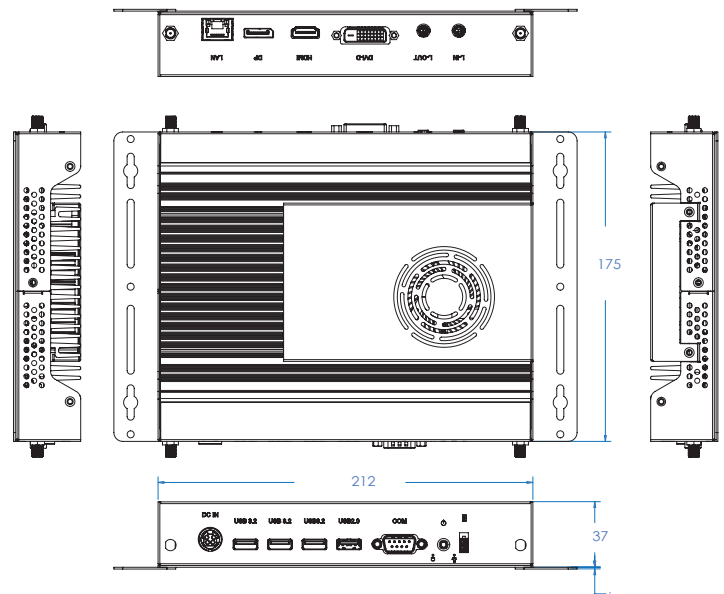
Features

- iSMART intelligent energy-saving technology - enables power on/off scheduling and power resume functions
- Supports 13th/12th Gen Intel® Core™ processors
- 1x HDMI 2.0 / 1x DP++ 1.4 / 1x DVI-D
- 2x DDR5-4800 SO-DIMM, dual channel, Max. 64GB
- 1x M.2 B-Key (3052) for 5G
- 1x M.2 E-Key (2230) for WiFi, Bluetooth or capture card options
- TPM 2.0, vPro and watchdog timer
- Industrial-grade robust and compact design

Ordering Information

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|--------|--|
| SI-663 | Intel® Core™ i7-1265UL Processor, 2x 8GB DDR5 4800 SO-DIMM memory, M.2 128GB and 84W power adaptor |
| SI-MK3 | VESA bracket |

Dimensions



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