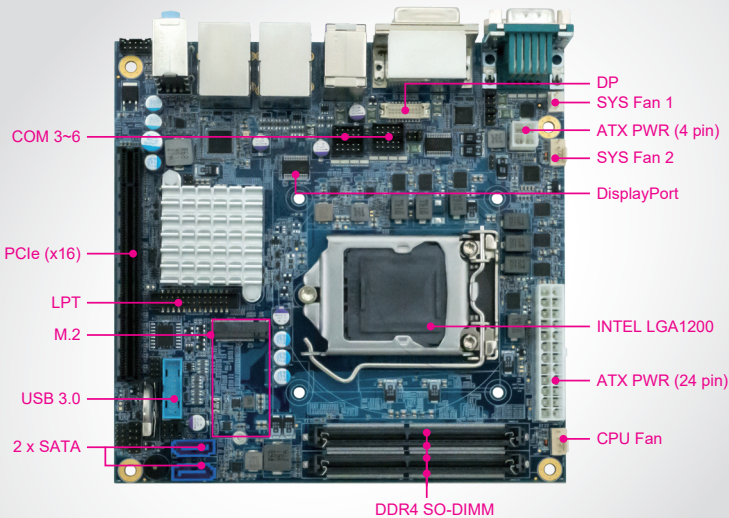


BM-D025

Mini-ITX Intel® 10th Gen. Xeon® / Core™ i9 / i7 / i5 / i3 / Pentium® / Celeron® CPU



Features



- Mini-ITX Intel® 10th Gen. Xeon® / Core™ i9 / i7 / i5 / i3 / Pentium® / Celeron® CPU
- 6 x COM, 2 x LAN, 8 x USB, 1 x LPT
- 2 x DVI-D, 1 x DP
- 2 x SATA, supporting RAID 0/1 (for W480E/Q470E SKU)
- 1 x PCIe (x16)
- 1 x M.2 slot for NVMe (up to PCIeX4) & SATA

Specifications

System

CPU Support	LGA1200 socket for Intel® 10th Gen. Xeon® / Core™ i9 / i7 / i5 / i3 / Pentium® / Celeron® desktop CPU
CPU List	Xeon®: W-1290TE, W-1270TE, W-1250TE (for W480E SKU) Core™: i9-10900E(TE), i7-10700E(TE), i5-10500E(TE), i3-10100E(TE) Pentium®: G6400E(TE) Celeron®: G5900E(TE)
Chipset	Intel® H420E/Q470E/Q480E
Memory Support	2 x DDR4 SO-DIMM sockets (up to 64GB)
BIOS	AMI UEFI BIOS
Watchdog	1~255 seconds watchdog timer selectable
Power Supply	ATX power (24+4 pin)
Power Consumption	+12V: 2.4A; -12V: 0.01A; +3.3V: 0.28A; +5V: 0.75A; +5VSB: 0.06A
Dimensions	170 x 170 mm (6.69" x 6.69")
Certifications	FCC / CE
O.S. Support	Windows 10 IoT Enterprise LTSC 2019; Linux Ubuntu 20.04 LTS

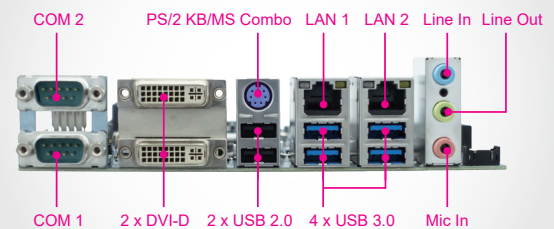
Graphics

DVI	2 x DVI-D (rear I/O) up to 1920 x 1200 @60Hz
DisplayPort	1 x DP up to 4096 x 2304 @60Hz (wafer)

Environment

Operation Temp.	0°C~60°C (32°F~140°F) @humidity 20%~90%
Storage Temp.	-40°C~85°C (-40°F~185°F) @humidity 20%~95%

I/O Panel View



I/O Ports

SATA Interface	2 x SATA 3.0 (W480E/Q470E SKU support RAID 0/1)
Expansion Bus	1 x PCIe (x16) 1 x M.2 slot for NVMe (up to PCIeX4) & SATA, size 2242
Serial Ports	6 ports COM 1: RS-232/422/485 (rear I/O) COM 2: RS-232 (rear I/O) COM 1~2 support +5V/+12V/RI jumper selectable COM 3~6: RS-232 (wafer)
Keyboard/Mouse	1 x PS/2 Combo connector for keyboard & mouse (rear I/O)
Parallel Port	1 x parallel port (SPP/EPP/ECP) (box header)
FAN	1 x CPU fan, 2 x system fan (internal connector)
LAN	Dual LAN (2 x RJ45 on rear I/O) LAN 1: Intel® PHY 219LM (GbE) LAN 2: Intel® LAN 210AT (GbE) Supports Wake-On-LAN
Audio	Mic In / Line In / Line Out (rear I/O)
USB	8 ports 4 x USB 3.0 (rear I/O) 2 x USB 2.0 (rear I/O) 2 x USB 3.0 (box header)

* All information contained in this document is subject to change without prior notice. Please log on www.protech.com.tw to acquire latest information. For detail mechanics drawing, please contact our sales.