MLB-3000

Medical Box PC with 8th/9th Gen Intel® Core™ i7/i5/i3 (LGA1151 Socket) Supporting MXM GPU Module

Compliant with IEC 60601-1 / IEC 60601-1-2



Features

- ADLINK MXM Graphics module support (Type A/B, up to 120W TDP based on power supply)
- 8th/9th Gen Intel® Core™ i7/i5/i3, Celeron® processor
- Dual SODIMMs for up to 64GB DDR4 non-ECC memory (dependent on CPU)
- 6x DisplayPort (2 from CPU, 4 from MXM)
- 1x M.2 E key supporting 1630 or 2230 for Wi-Fi/Bluetooth module, 1x M.2 B key supporting 2242 or 2280 for SATA storage module, 1x M.2 M key supporting 2242 or 2280 for SATA/PCIe x4 storage module
- Reliable Molex type 12V DC-in connector
- 1x Intel® i219-LM and 3x Intel® i210-AT

Software Support

- Win10 IoT Enterprise 64bit
- Ubuntu 20.04

Optional Accessories

- Black plate of GPU card: 32-50032-1000-A0
- MXM cooler for A1000/A2000: 32-20932-0000-A0
- MXM cooler for A4500: 32-20965-0000-A0
- MXM cooler for RTX3000: 32-20823-1100-A0
- 12V/220W Medical grade adapter: 31-62185-0000-A0 (supports GPU cards up to 80W TDP)
- 12V/300W Medical grade adapter: 31-62188-0000-A0 (supports GPU cards up to 115W TDP)
- Wall Mount Bracket 34-34546-0100-A0 2pcs
- Wifi Kit INTEL AC9260 Non-VPRO 91-95266-0020

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Specifications

Model	MLB-3000				
MXM Support	EGX-MXM-T1000	EGX-MXM-RTX3000	EGX-MXM-A1000	EGX-MXM-A2000	EGX-MXM-A4500
Processor	Intel® Core™ i7-9700E, 2.6GHz, 12M Cache, 65W TDP, LGA1151, DDR4 2666MHz support (8C/8T) Intel® Core™ i7-9700TE, 1.8GHz, 12M Cache, 35W TDP, LGA1151, DDR4 2666MHz support (8C/8T) Intel® Core™ i5-9500E, 3.0GHz, 9M Cache, 65W TDP, LGA1151, DDR4 2666MHz support (6C/6T) Intel® Core™ i5-9500TE, 2.2GHz, 9M Cache, 35W TDP, LGA1151, DDR4 2666MHz support (6C/6T) Intel® Core™ i3-9100E, 3.1GHz, 6M Cache, 65W TDP, LGA1151, DDR4 2400MHz support (4C/4T) Intel® Core™ i3-9100TE, 2.2GHz, 6M Cache, 35W TDP, LGA1151, DDR4 2400MHz support (4C/4T) Intel® Core™ i7-8700, 3.2GHz, 12M Cache, 65W TDP, LGA1151, DDR4 2666MHz support (6C/12T) Intel® Core™ i7-8700T, 2.4GHz 12M Cache, 35W TDP, LGA1151, DDR4 2666MHz support (6C/12T) Intel® Core™ i5-8500, 3.0GHz, 9M Cache, 65W TDP, LGA1151, DDR4 2666MHz support (6C/6T) Intel® Core™ i5-8500T, 2.1GHz, 9M Cache, 35W TDP, LGA1151, DDR4 2666MHz support (6C/6T) Intel® Core™ i3-8100, 3.6GHz, 6M Cache, 65W TDP, LGA1151, DDR4 2400MHz support (4C/4T) Intel® Celeron® G4900, 3.1GHz, 2M Cache, 54W TDP, LGA1151, DDR4 2400MHz support (2C/2T) Intel® Celeron® G4900T, 2.9GHz, 2M Cache, 35W TDP, LGA1151, DDR4 2400MHz support (2C/2T)				
Chipset	Intel® Q370 Chipset				
Memory	Non-ECC DDR4 2666/2400MHz, 2x SO-DIMM, up to 64GB (dependent on CPU)				
I/O Interfaces					
Display	6x DisplayPort (2 from CPU, 4 from MXM)				
Ethernet	1x GbE (Intel® i219-LM), 3x GbE (Intel® i210-AT)				
Serial Ports	1x RS-232/422/485, 1x RS-232				
USB	4x USB 3.2 Gen1x1 ports, 4x USB 2.0 ports				
M.2	1x M.2 E key supporting 1630 or 2230 for Wi-Fi/BT module, 1x M.2 B key supporting 2242 or 2280 for SATA storage module, 1x M.2 M key supporting 2242 or 2280 for SATA/PCIe x4 storage module				
Digital IO	Standard: None Optional: 1x DI/DO with 4 in, 4 out Note: Optional DIO, Audio and TPM 2.0 must be chosen together.				
Audio	Standard: None Optional: 2x 3.5 mm stereo line-out (6W, L/R channels), 1x 3.5 mm mic-in				
TPM 2.0	Standard: None, optional TPM				
Storage					
SATA	2x 2.5" SATA 6Gb/s external drive bays 1x SATA 6Gb/s signal via M.2 B & M key connector				
Mechanical					
Dimensions	235 x 182 x 75mm (W x D x H, without foot pads)				
Mounting	Optional wall-mount bracket				
Power Supply					
DC Input	DC 12V input (Molex DC-in jack)				
AC Input	220W (12V/18.34A) AC/DC Medical grade adapter				
Environmental					
Operating Temperature	0°C to 40°C				
Storage Temperature	-20°C to 70°C				
Humidity	5% to 95%, non-condensing				
Vibration	Operating vibration: 2Grms, 5-500Hz, 3 axes, Package(NON-OP) vibration: 3.44Grms, 10-1000Hz, 3 axes (W/MXM, W/SSD)				
EMC	EN55032/35, CE , FCC				
Safety	UL/cUL and CB (62368-1:2014)				
Medical Grade	Compliant with IEC 60601-1:2005 + A1:2012 + A2:2020 (3.1 edition) / IEC 60601-1-2:2014 + A1:2020 (4.1 edition)				

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