

Rugged Mini E2 v2

Technical Specifications

Features

- Intel 9th Gen. Core i7/i5/i3 Processors
- Intel Q370 Chipset
- 2 x 260-pin DDR4 SO-DIMM, up to 64GB
- Triple independent display
- 2 x Intel GbE supporting Wake-on-LAN and PXE
- 2 x 2.5" SATA HDD Bay and 1x mSATA storage options
- 2 x Full-size mini PCIe for communication or expansion modules, 1 x SIM socket
- 3 x RS-232/488/485, 4 x USB 3.2
- 16-bit Isolated digital I/O
- 9 ~ 48VDC wide range power input
- ~ 25°C to 60°C extended operating system



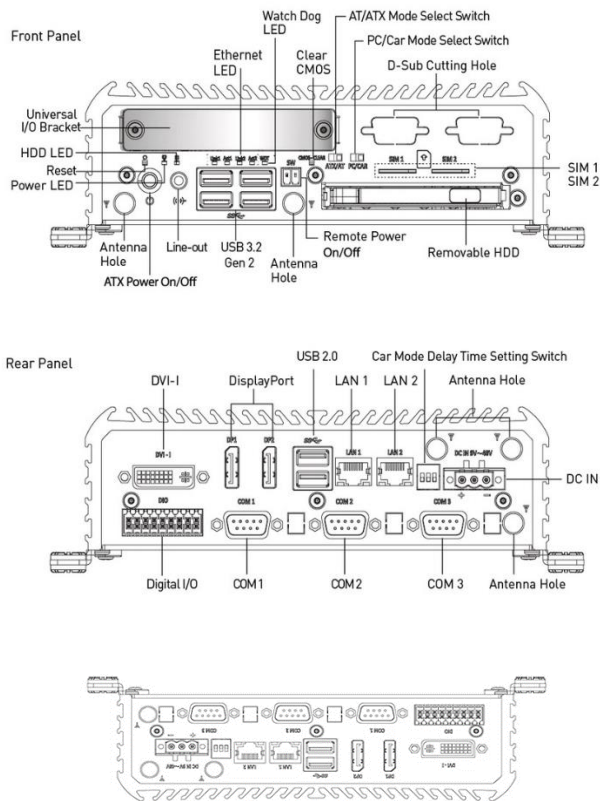
Specifications

System	
Processor	Intel 9 th Gen. CORE i7/i5/i3 Processors
System Chipset	Intel Q370 Express Chipset
Graphics Controller	Intel UHD Graphics 630 (Core CPU)
LAN Chipset	1 x GbE: Intel I210-AT 1 x GbE: Intel I219-LM
Audio	Realtek ALC8885
System Memory	Up to 64GB DDR4 2400 (2 x SO-DIMM)
BIOS	AMI 256Mbit
Watchdog	Software Programmable Supports 1~255 sec. System Reset
Storage	
SSD/HDD	1 x 2.5" SATA Bay (internal) 1 x 2.5" SATA Bay (removeable)
mSATA	1 x mSATA (shared with 1 x Mini PCIe)
RAID Support	RAID 0, 1, 5
Expansion	
Mini PCI Express	2 x MiniPCIe (full size)
SIM Socket	2 x external SIM sockets
M.2	1 x M.2 2230 "E" Key PCI x 1 (WiFi)
Other	
Cooling Method	Fanless
I/O	
Video	1 x DCI-I 2 x DisplayPort
COM	3 x D89 serial RS232/422/485, COM 1 ~ 3 2 x Internal headers RS232/422/485, COM4 & COM5 (Requires optional bracket adapter)
USB	Standard Model: 4 x USB 3.2 Gen2 (Front) 2 x USB 2.0 (Internal)
LAN	2 x GbE RJ45
WLAN	Intel Wireless AC-9260 + BT 5.1 or Intel WiFi 6 Ax200 + BT 5.1 (Optional)
Audio	1 x Mic-in 1 x Line-out
DIO	8 IN / 8 OUT (isolated)
Other	1 x Power Switch 1 x AT/ATX Switch 1 x Remote Power Switch (2 pin Phoenix Connector)

Operating System	
Windows	Windows 10 Pro 64bit Windows 11 Pro 64bit
Power	
Power Mode	AT/ATX
Power Input Voltage	9 ~ 48 VDC
Power Ignition Sensing	Yes
Power Connector	3-pin Phoenix Connector
Power Protection	OVP (Over voltage protection) OCP (Over current protection) RPP (Reverse polarity protection)
Power Adapter	External Power Adapter, 24V @ 9.16A
Environment	
Operating Temperature	-13°F to 140°F (-25°C to 60°C)
Storage Temperature	-22°F to 185°F (-30°C to 85°C)
Relative Humidity	10% to 95% non-condensing
Shock	With SSD: 50G, half sine, 11ms
Vibration	With SSD: 5Gms, 5-500 Hz, 0.5hr/axis With HDD: 1Grms, 5-500 Hz, 0.5 hr/axis
Certification	CE, FCC Class A
Physical	
Enclosure Materials	Extruded Aluminum with Heavy Duty metal
Dimension (W x H x D)	7.56" x 7.75" x 2.37" (192mm x 197mm x 60.3mm)
Weight	7.93 lbs. (3.6 kg)
Mounting	Wall Mount Standard DIN Rail (optional)
Warranty	
Warranty	1-year standard

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I/O Layout



Dimensions

