

LEC-2290A

Intelligent Edge Computing Box PC
w/ Support for Intel® Core™ i7-8700T/i7-8700/
i7-9700TE & Intel® Xeon® E-2278GEL



Features

- Intel® Core™ i7-8700T/i7-8700/i7-9700TE & Intel® Xeon® E-2278GEL
- 2x SO-DIMM DDR4 2133/2400, Max. 64GB
- 2x GbE RJ45 LAN, 4x PoE, 4x USB3.0, 6x COM Ports, 8x DI & 8x DO
- 2x Removable HDD/SSD External Slot w/ RAID, 1x mSATA
- 1x PCIe*16, 1x Mini-PCIe, 1x M.2 B-Key

Specifications

Processor System

CPU	Intel® Core™ i7-8700T/i7-8700/i7-9700TE & Intel Xeon E-2278GEL
Frequency	2.4GHz/3.2GHz/1.8GHz/2.0GHz
Core Number	6/8
BIOS	AMI 256Mbit SPI Flash BIOS
Chipset	FH82C246

Fanless

Yes (see *1)

Memory

Technology	SO-DIMM DDR4 2133/2400
Max. Capacity	64 GB
Socket	2x 260-pin SO-DIMM

Graphic

Controller	Intel® UHD Graphics 630
Interface	2x HDMI, 1x DP

Audio

Codec	TSI 92HD73C
Interface	1x Mic-in, 1x Line-out

Ethernet

Controller	Intel i210IT
Speed	10/100/1000 Mbps
Interface	2x GbE RJ45, 4x PoE RJ45 @IEEE 802.3at (Total PoE Budget of 60W)

Storage

Type	SATA III
Installation	2x Removable HDD/SSD External Slot w/ RAID

I/O

Serial Port	6x D-Sub RS232/422/485
Digital I/O	8x DI, 8x DO (12V@100mA)
USB 2.0	4x USB 3.0 Type A
Power-On/Reset Button	1x Power-On, 1x Reset Button
Remote Power Switch	1x 2-pin Remote Power Switch
LED	Power/Storage/LTE/Wifi

Expansion Interface

Mini-PCIe	1x Mini-PCIe (PCIe + USB2.0) w/ Nano-SIM
PCIe	1x PCIe *16 (support *4/*8/*16)
M.2	1x M.2 B-Key (PCIe + USB3.0) w/ Nano-SIM

Watchdog Timer

Watchdog Timer 1~255 Level Time Interval System Reset, Software Programmable

Power

Power Type	ATX
Power Supply Voltage	9VDC ~ 30VDC
Connector	1x 4-pin Terminal Block
Power Consumption (Idle)	29.5W@ +12VDC-in (see *2)
Power Consumption (Full Load)	121.6W@ +12VDC-in (see *2)

Environment

Operating Temperature	-20°C~55°C (35W CPU) -20°C~45°C (65W CPU)
Storage Temperature	-40°C~70°C
Relative Humidity	10%~90% (Non-condensing)
Vibration	IEC 60068-2-64, 0.5Grms, random 5 ~500 Hz, 40 mins/axis

Mechanical

Dimension (W x H x D)	275 x 115 x 225 mm
Construction	Aluminum Extrusion & SGCC
Weight	6.3 kg
Mounting	Wallmount

Driver Support

Microsoft Windows	Windows 10 IoT 64bits Series Ubuntu 16 and Above Fedora 25 and Above Cent OS 7 and Above
Linux	Kernel 3.12

Certification

EMC	CE/FCC, Class A
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*1 2x smart fans may be needed when a high-power add-on card is plugged into PCI express expansion slot.

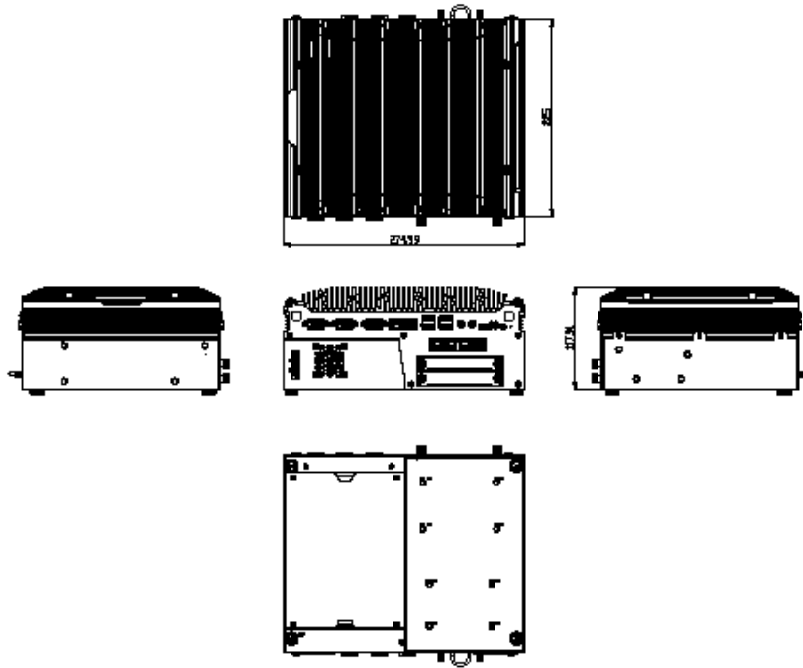
*2 Configuration as Intel Core i7-8700 CPU, 8GB DDR4 system memory, 64MB mSATA, 1TB 2.5" SSD, 2TB 2.5" SSD, 180W AC/DC adaptor.

■ Product I/O View



A COM	E Remote Power	I On/Off & Reset	M COM
B LAN	F PoE	J DIO	N DC-in
C USB 3.0	G Removable HDD/SSD Slot	K DP	O Antennas
D Line-out/Mic-in	H Status LED	L HDMI	P PCIe

■ Dimensions (W x H x D) 275 x 115 x 225 mm (10.8" x 4.5" x 8.9")



■ Ordering Information

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Support Intel® Core™ I Coffee Lake Gen8/9 (FCLGA1151) with 2*DDR4 SO-DIMM, 2*HDMI, 1*DP, 2*GbE LAN, 4*GbE PoE, 6* RS-232/422/485, 4*USB 3.0, DIO, Audio, 1*mSATA, 2*external 2.5" SATA drive bay, 1*miniPCI-E slot with 1*Sim card socket, 1* m.2 Slot with 1*Sim card socket, Support 1* removable m.2 with dual SIM carrier, +9~30VDC input, 1*PCIe x16 expansion slot (support *4/*8/*16)

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