

LEC-2290

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 DDR4 2133/2400 SO-DIMM, Max. 64GB
- 2x RJ45 GbE 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 PCIe*4, 1x Mini-PCIe (PCIe + USB2.0) w/ Nano-SIM, 1x B Key M.2 (PCIe + USB3.0) w/ Nano-SIM

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

Graphic

Controller	Intel® UHD Graphics 630
HDMI	2

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	-
USB 3.0	4x 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 & 1x PCIe*4
M.2	1x B Key M.2 (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	9~30 Vdc
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	6.2 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
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Linux	Kernel 3.12
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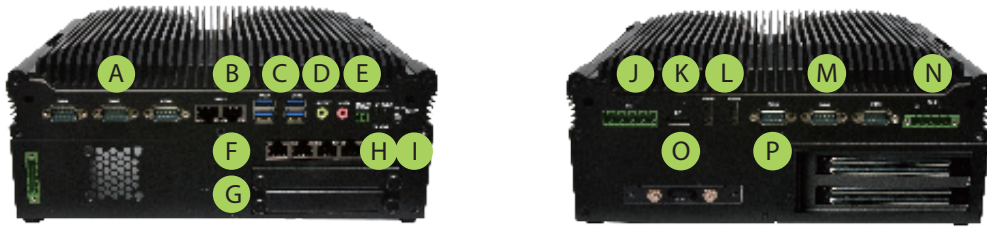
Certification

EMC	CE/FCC, Class A
Safety	None

*1 2x smart fans may be needed when a high-power add-on card is plugged into PCI express expansion slot.

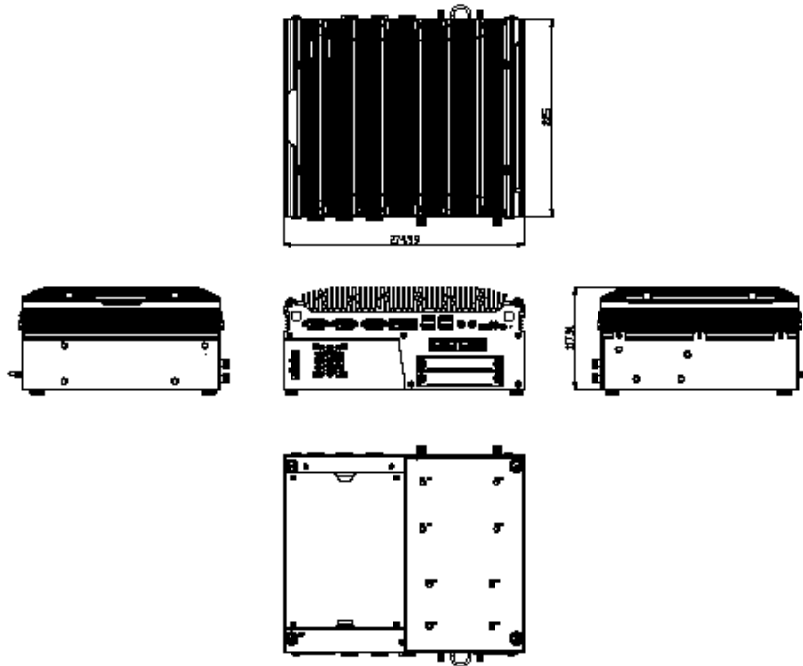
*2 Configuration as Intel Core i7-8700 CPU, 8GB DDR4 system memory, 64MB mSATA, 1TB 2.5" SSD, 2TB 2.5" SSD, 180W AC/DC adaptor.

Product I/O View



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|--------------------------|------------------------------------|-------------------------|-------------------|
| A COM x3 | E Remote Power | I On/Off & Reset | M COM x3 |
| B LAN x2 | F PoE x4 | J DIO | N DC-in |
| C USB 3.0 x3 | G Removable HDD/SSD Slot x2 | K DP | O Antennas |
| D LINE-out/MIC-in | H Status LED | L HDMI x2 | P PCIe x2 |

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



Ordering Information

LEC-2290A

Intel® Core™ i7-8700T/i7-8700/i7-9700TE or Intel Xeon E-2278GEL CPU w/ 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 w/ 1*Sim Card Socket, 1* M.2 Slot w/ 1*Sim Card Socket, Support 1* Removable M.2 w/ Dual SIM Carrier, 1x PCIe*16 & 1x PCIe*4 Expansion, +9~30VDC Input

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