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 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 PCIe*4, 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	-
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 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	6.2 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
Linux	Kernel 3.12
Certification	
EMC	CE/FCC, Class A

*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.