Features

- Intel® Core™ i7 Processor (Coffee Lake)
- NVIDIA® A2 GPU Card Support
- 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
- Built-in TPM 2.0 & Optional IPMI Support

Specifications

Processor System

CPU
Intel® Core™ i7 Processor (Coffee Lake)

Frequency
3.2GHz/1.8GHz

Core Number
6/8

BIOS
AMI 256Mbit SPI Flash BIOS

Chipset
C246

Fanless
No

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
TSL 92HD73C HD

Interface
1x Mic-in, 1x Line-out

Ethernet

Controller
6x Intel i210IT

Speed
10/100/1000 Mbps

Interface
RJ45

Storage

Type
SATA III

Installation
2x Removable HDD/SSD External Slot w/ RAID

I/O

Serial Port
6x D-sub 9, RS232/422/485

Digital I/O
1x Terminal Block Isolation, 8x DI (12V), 8x DO (Sink Mode, 12V@100mA)

USB 2.0
- 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/TE/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@ +12V (see *2)

Power Consumption (Full Load)
121.6W@ +12V (see *2)

Environment

Operating Temperature
0°C~40°C (Up To 35°C Based On NVIDIA Industrial Edge V2.5 Certified Program)

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 18.10 64bit or Above

CentOS 7 or Above

Fedora 30 64bit or Above

Linux
Kernel 3.12

Certification

EMC
CE/FCC, Class A
(To be acquired by early March, 2022)

Safety
CB 62368 & 60950/UL 62368
(To be acquired by early March, 2022)
**Product I/O View**

A  COM x3  
B  LAN x2  
C  USB 3.0 x4  
D  LINE-out/MIC-in  
E  Remote Power  
F  DC Input  
G  PoE x4  
H  HDD/SSD Bays x2  
I  Status LED  
J  On/Off Switch  
K  DIO  
L  Display Port  
M  HDMI x2  
N  COM x3  
O  DC Input  
P  PGN Module Slot  
Q  PCIe Slot

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

**Ordering Information**

LEC-2290E  
Intelligent Edge Computing IPC With Intel® Core™ i7-9700TE, 64GB System Memory, mSATA 128GB & 2.5” 256GB SSD Storage, 240W AC/DC Adapter, Nvidia Tesla A2 GPU & Thermal Kit