

# IGN210

## The IGN210 Intel® Elkhart Lake Compact Rugged Computer

The power and IoT capabilities of the latest Intel Atom® x6000E processors in a compact, rugged, fanless system built for the challenges of the IoT Edge.

[onlogic.com/ign210](http://onlogic.com/ign210)



### Built For IoT With Intel Elkhart Lake

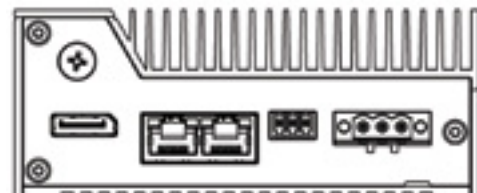
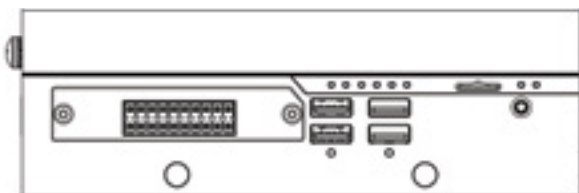
Powered by a Dual-Core Intel Atom x6211E, or Quad-Core x6425E processor, which have been specifically designed for the IoT, the IGN210 offers a unique combination of features, power and connectivity. The integrated Intel® Programmable Services Engine enables support for a host of connectivity and power management functions, including CAN bus and automotive power control. The IGN210 is perfect as a rugged Industrial IoT gateway, edge device, embedded controller or the backbone for medical, energy management or industrial control applications.

### Protected By Hardshell Fanless Technology

Measuring just over 2" tall, and with support for Wall, DIN Rail or VESA mounting, the IGN210 was designed to be installed anywhere you need it. Its rugged design, -40° to 70°C operating temperature range, 9-48V power input, and the absence of any moving parts dramatically improve lifespan and reliability. Environmental testing is in process for Medical EMC (EN 60601-1), Rail EMC (EN 50121), Maritime EMC (EN 60945), Automotive E-mark, as well as IEC and MIL-STD-810 shock and vibration. All of this performance is safely delivered inside a system NRTL listed to UL 62368-1, accompanied by a CB Scheme to IEC 62368-1.

### Customize Your Connectivity

The IGN210 was designed from the ground up to give you the capabilities you need for your IIoT project. That forethought extends to the available connectivity and expansion options. Standard I/O includes 2 USB 3.2 & 2 USB 2.0 ports, dual LAN (with optional PoE+), CAN bus (via 3-pin terminal block) and a Display-Port. The system's integrated SIM slot and optional WiFi and 4G LTE give you wireless access to your critical data from anywhere. You can also use OnLogic's unique ModBay expansion capabilities to add dual COM or GPIO.



#### US Office

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#### EU Office

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System	
Processor	Intel Atom x6425E Intel Atom x6211E
Processor Speed	1.80 GHz to 3.0 GHz
Processor Socket	Onboard (BGA)
Processor Generation	Elkhart Lake
Processor Cores	2 4
Chipset	Shared with CPU
Graphics/GPU	Intel UHD Graphics
Memory Type	DDR4 SO-DIMM (non-ECC)
Memory Capacity	32 GB
Memory Speed	3200 MHz
Memory Slot Count	2
Number of Displays Supported	1 direct output (3 with MST hub)

Bottom I/O	
Ethernet	2 GbE LAN ports (PoE+ optional)
Video	1 DisplayPort connector
Other	1 CAN bus 1 3-pin Terminal Block power connector

Top I/O	
Other	4 Antenna holes

Front I/O	
USB	2 USB 3.2 Gen 2 ports 2 USB 2.0 ports
Other	1 Power button 1 ModBay expansion slot 1 3FF Micro-SIM

Expansion & Features	
Expansion Options	1 Full-size mPCIe slot (PCIe x1, SATA, USB 2.0) 1 M.2 2230 E-Key slot (PCIe x1, USB 2.0)
Storage Options	1 M.2 3042/2280 B-Key slot (PCIe x2, SATA, USB 2.0)
LAN Controller	Intel I210-IT GbE
System Monitoring	Intel PTT support TPM 2.0 Module (optional)
Input Voltage	9 - 48 VDC
Power Input	3-pin Terminal Block connector

Mechanical	
Dimensions (WxHxD)	180 x 123 x 50 mm 7.09 x 4.84 x 1.97 in
Case Type	Ruggedized
Mounting Options	DIN-mount VESA-mount Wall-mount

Environmental & Regulatory	
Operating Temperature	-40 - 70°C
Operating Humidity	10% - 95% (non-condensing)
Certifications	FCC 47 CFR Part 15 CE CB scheme RoHS 3 (2015/863/EU) EN 55024 EN 55032 EN 62368-1 IEC 60068-2-27 IEC 60068-2-64 VCCI RCM EN 60945 Ed. 4 EN 50121-3-2 EN 60601-1-2 4th ed.

Other	
Hardware Type	Edge Devices and IoT Gateways
Warranty	2 Year Limited Warranty on parts and services

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## IGN210 Dimensional Drawings

Rugged Expandable Computer

All measurements in mm

