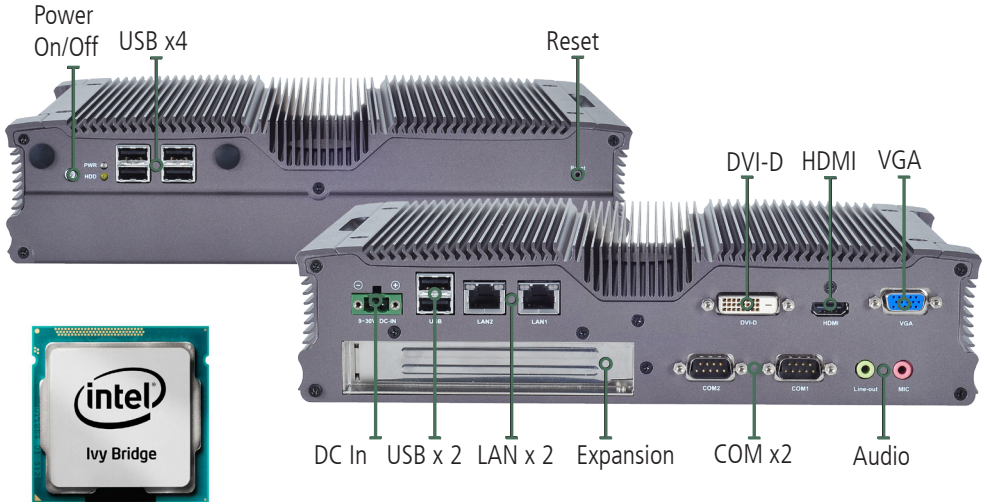


# LEC-2280

Fanless Industrial PC with  
3rd Gen Intel® Core™ i7/i5/i3 CPU



## Features

### Intel Ivy Bridge Platform

The 22nm Ivy Bridge processors outperform its predecessor, Sandy Bridge, with a 5%~15% increase in CPU performance and 25%~68% increase in integrated GPU performance. Ivy Bridge processors use 3-D Tri-Gate transistor technology which consumes up to 50% less power than 2-D transistors at the same performance level. The customers wish to upgrade to Ivy Bridge will definitely see an increase in performance and a reduction in power consumption.

### Fanless

This IPC's lifespan is extended with the removal of the most easily damaged component, the fan.

### Multi-Screen Support

This platform comes with multiple video-out ports and can support separate video streams on dual displays.

### Integrated SIM card reader

Integrated in one of the mini-PCIe slots, the SIM card reader, allows for users to enable 3G use for their IPC.

## Expandable PCI or PCIe slot

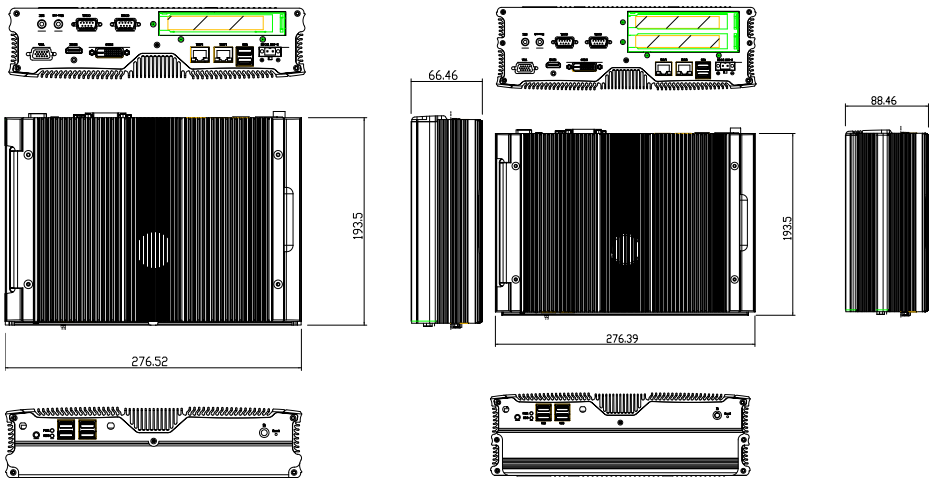
The product has additional space for another PCI or PCIe expansion. Allowing customers to choose what type of expansion slot they need. The main board has a PCIe x16 port that via standard riser cards can be turned into a PCIe x1 or PCIe x8 port.

## Multi I/O Expansion Layer

LEC-2280 has an unique Multi I/O (MIO) Expansion Layer that makes it easier to get the I/O configuration you need. From

the main board there is also an I/O connector that fits with a plug-in I/O card which you can customize by choosing from a selection of ports you need - Audio, DI/DO, Serial, USB, LAN, and eSATA. There is also a drive bay area with SATA connectors for a 2.5" HDD or SSD. This connection can also be used to create an external CompactFlash socket.

## Dimensions 277x(67/89)x194mm[10.91"x(2.64/3.50)"x7.64"]



# Preliminary Specifications

<b>Processor Options</b>		Intel® Core™ i7-3612QE/i7-3555LE/i5-3610ME/i3-3120ME
<b>Chipset</b>		Intel® HM65
<b>BIOS</b>		AMI 32bit SPI UEFI BIOS
<b>System Memory</b>	Sockets	2 x 204-pin SODIMM socket
	Technology	DDR3 1333/1600 MHz
	Max. Capacity	Up to 16 GB
<b>USB</b>		6x USB 2.0 compliant hosts: Type A connector
<b>Expansion Bus</b>		Mini-PCIe x2: one with SIM card reader; LEC-2280E: PCIe x1; LEC-2280P2: PCI x2
<b>OS Support</b>		WES 7 E/Win 7 Pro FES/WE 8.1 Industry Pro
<b>Storage</b>	HDD/SSD Support	1x 2.5" HDD/SSD drive bay
	Expansion	1xSATA port for 1x 2.5" SSD/HDD driver bay
<b>Networking</b>	LAN	2x10/100/1000Mbps, Autosensing,RJ-45
	Controller	Intel 82574L x2
<b>Display</b>	Graphics Controller	Intel® HD Graphics 4000
	Display Interface	HDMI x1, VGA x1, DVI-D x1
<b>Audio</b>	Audio Controller	Realtek ALC886
	Audio Interface	Phone Jack x2 for Mic-in and Line-Out
<b>LEDs</b>		Power, HDD active
<b>Physical Characteristics</b>	Housing	(SECC) Sheet Metal
	Weight	3.3 kg (N.W.) / 5.9 kg (G.W.)
	Dimensions (WxHxD)	277x67x194mm
	Mounting Options	Wall mount -4
<b>Environment</b>	Operation Temperature	-20~55°C (with Industrial grade components)
	Storage Temperature	-20~70°C
	Ambient Relative Humidity (non-condensing)	5 to 95% (non-condensing)
<b>Power</b>	Input Voltage	+9~30V
	Power Consumption	34W
	Connector	2-pin terminal block with lock
	AC Adapter	75W 19V/3.95A
<b>Standard and Regulation</b>	EMC	CE/FCC
	Green product	RoHS
<b>Reliability</b>	Alter tool	Built-in buzzer and RTC (real-time clock) with battery lithium backup
	Automatic Reboot Trigger	Watchdog Timer 1~255 level time interval system reset, software programmable
	Warranty	2 Years
	MTBF	TBD

## Ordering Information

<b>LEC-2280E-3A</b>	Fanless Industrial PC with Intel® Core™ i3-3120ME CPU with one PCI express 1X expansion
<b>LEC-2280E-5A</b>	Fanless Industrial PC with Intel® Core™ i5-3610ME CPU with one PCI express 1X expansion
<b>LEC-2280E-7A</b>	Fanless Industrial PC with Intel® Core™ i7-3555LE CPU with one PCI express 1X expansion
<b>LEC-2280E-7B</b>	Fanless Industrial PC with Intel® Core™ i7-3612QE CPU with one PCI express 1X expansion
<b>LEC-2280P2-3A</b>	Fanless Industrial PC with Intel® Core™ i3-3120ME CPU with Dual PCI expansions
<b>LEC-2280P2-5A</b>	Fanless Industrial PC with Intel® Core™ i5-3610ME CPU with Dual PCI expansions
<b>LEC-2280P2-7A</b>	Fanless Industrial PC with Intel® Core™ i7-3555LE CPU with Dual PCI expansions
<b>LEC-2280P2-7B</b>	Fanless Industrial PC with Intel® Core™ i7-3612QE CPU with Dual PCI expansions

## Standard Accessories

<b>SE9ESA900R100</b>	Wall Mount - 4
<b>04AW20021E101</b>	2-pint Terminal block for power input
<b>080W1N0002001</b>	SATA SSD/HDD cable w/ power
<b>0P0W075190001</b>	RoHS 75W 19V/3.95A FSP075-DMAB1(L06001) 9NA0750700 Phoenix Contact

## Optional Power Cords

<b>080W240318306</b>	US Power Cord
<b>080W240318305</b>	Schuko (EU) Power Cord
<b>080W240318301</b>	UK Power Cord
<b>080W240318307</b>	China Power Cord
<b>080W240318309</b>	Japan Power Cord

## Optional Mounting kit

<b>PE9ESA8300100</b>	VESA Mount
<b>090W405000001</b>	DIN Rail Mount

## Optional Accessories

<b>0TAWWE34600Z01</b>	3G Module, Novatel E346 (**MOQ 50)
<b>0TAWAWNE77Z01</b>	Wi-Fi Module, 802.11 b/g/n Mini-PCIe card
<b>080W1Q0002001</b>	Internal Wi-Fi Antenna Cable
<b>0TZW000000039</b>	SMA Antenna, male jack / female plug
<b>080W1Q0001501</b>	Internal Antenna cable for 3G//GPS module
<b>0TZW000000072</b>	3G Module External Antenna