Fanless Embedded PC

Model: LPC8800-i5

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 IPCs lifespan has been extended by removing the most easily damaged component, the fan.

Multiple display ports
This platform comes with multiple video-out ports to allow easy integration with any signage setup.

Integrated SIM card reader
Integrated in a mini-PCIe slot, the SIM card readers allow for users to enable 3G use for their IPC.
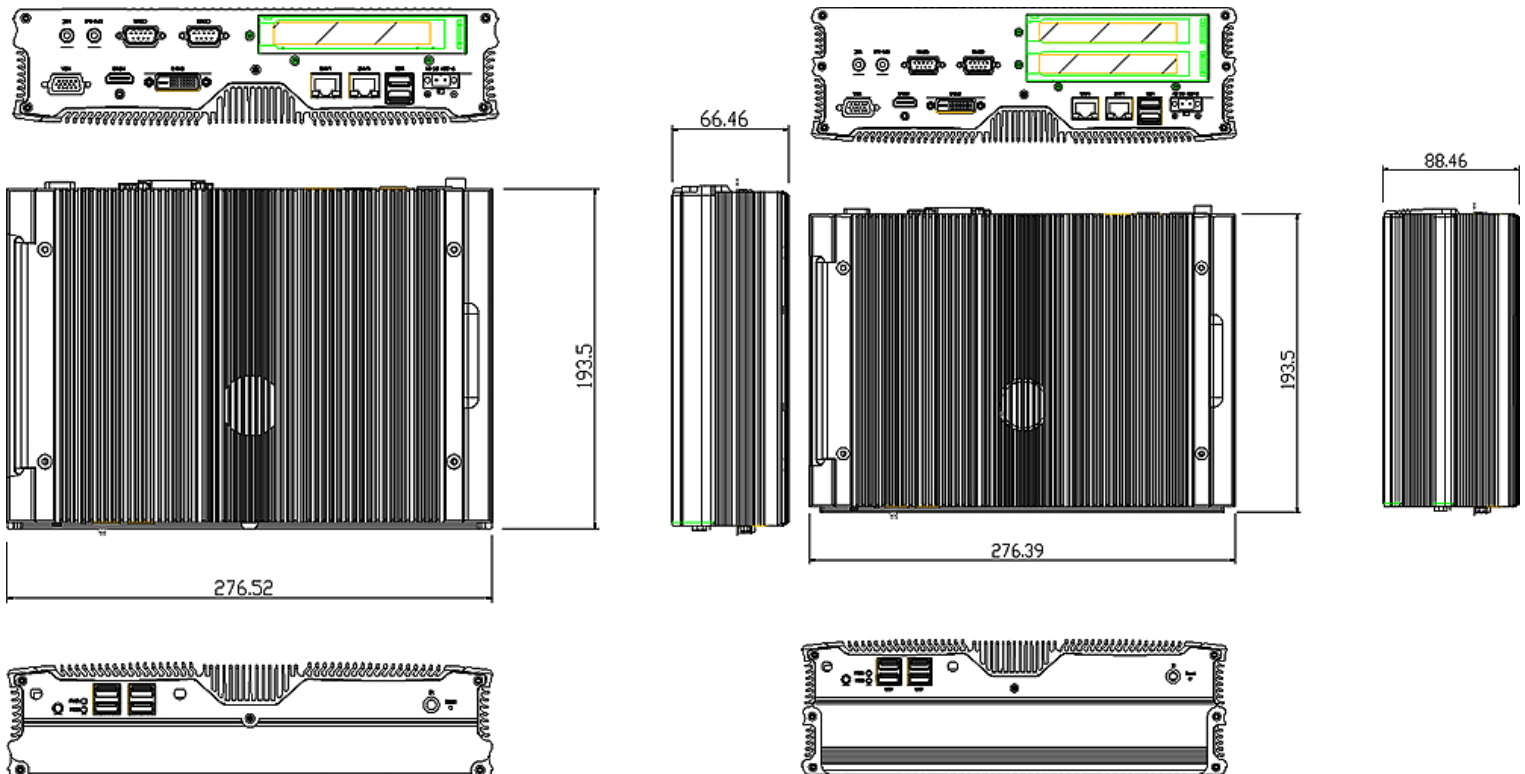
Expandable PCI or PCIe slot
The product has additional space for another PCI or PCIe expansion. Allowing customers to choose what type of expansion slot they need. The main board has a PCIe x16 port that via standard riser cards can be turned into a PCIe x1 or PCIe x8 port.

Multi I/O Expansion Layer
LCP8800 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.

Drawings

Preliminary Specifications

Processor Options		3rd Gen Intel® Core™ i7/i5/i3
Chipset		Intel® HM65
BIOS		AMI 32bit SPI UEFI BIOS
System	Sockets	2 x 204-pin SODIMM socket
	Technology	DDR3 1333/1600 MHz
	Max. Capacity	Up to 16 GB
USB		6x USB 2.0 compliant hosts: Type A connector
Expansion Bus		2x Mini-PCIe expansion sockets, one for PCIexpress 1x and USB 2.0 signals and the other is for USB 2.0 with SIM-card reader
OS Support		Microsoft Window 7/7 Embedded/XP/XP Embedded, Linux 2.6.32 or later
Storage	HDD/SSD Support	1x 2.5" HDD/SSD drive bay
	Expansion	1xSATA port for 1x 2.5" SSD/HDD driver bay
Networking	LAN	2x10/100/1000Mbps, Autosensing,RJ-45
	Controller	Intel 82574L x2
Display	Graphics Controller	Intel® HD Graphics 4000
	Display Interface	HDMI x1, VGA x1, DVI-D x1
Audio	Audio Controller	Realtek ALC886
	Audio Interface	Phone Jack x2 for Mic-in and Line-Out
LEDs		Power, HDD active
	Others	External: Power-On Button, SMA
Physical Characteristic	Housing	(SECC) Sheet Metal
	Weight	TBD
	Dimensions (WxHxD)	277x67x194mm
	Mounting Options	Wall mount -4
Environment	Operation Temperature	-20~55°C (with Industrial grade components)
	Storage Temperature	-20~70°C
	Ambient Relative Humidity (non-condensing)	5 to 95% (non-condensing)
Power	Input Voltage	+18~36Vdc
	Power Consumption	TBD
	AC Adapter	75W 19V/3.95A
Standard and Regulation	EMC	CE/FCC
	Green product	RoHS
Reliability	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

Fanless Industrial PC with Intel® Core™ i3-3120ME CPU with one PCI express 1X expansion
Fanless Industrial PC with Intel® Core™ i5-3610ME CPU with one PCI express 1X expansion
Fanless Industrial PC with Intel® Core™ i7-3555LE CPU with one PCI express 1X expansion
Fanless Industrial PC with Intel® Core™ i7-3612QE CPU with one PCI express 1X expansion
Fanless Industrial PC with Intel® Core™ i3-3120ME CPU with Dual PCI express expansions
Fanless Industrial PC with Intel® Core™ i5-3610ME CPU with Dual PCI express expansions
Fanless Industrial PC with Intel® Core™ i7-3555LE CPU with Dual PCI express expansions
Fanless Industrial PC with Intel® Core™ i7-3612QE CPU with Dual PCI express expansions

Standard Accessories

Wall Mount – 4
Terminal block for remote power button
SATA SSD/HDD cable w/ power
RoHS 75W 19V/3.95A FSP075-DMAB1(L06001) 9NA0750700 Phoenix Contact

Optional Power Cords

US Power Cord
Schuko (EU) Power Cord
UK Power Cord
China Power Cord
Japan Power Cord

Optional Mounting kit

VESA Mount
DIN Rail Mount

Optional Accessories

3G Module, Novatel E346 (**MOQ 50)
Wi-Fi Module, 802.11 b/g/n Mini-PCIe card
Internal Wi-Fi Antenna Cable
SMA Antenna, male jack / female plug
Internal Antenna cable for 3G//GPS module
3G Module External Antenna