LEC-2220

Intel i7/i5/Celeron socket CPU support, DDR3 SO-DIMM x2, w/ 6 COMs. DVI-I / DVI-D Display. Dual Intel GbE. DIO (4 in 4 Out). Audio. +9~30V DC input support, one or two PCI / PCIe Expansion

Features

· Powered by Intel Core i i7/i5/ Celeron with DDR3 memory



- · Excellent graphic performance with support of MPEG4, WMV9, VC-1, and AVC hardware decoding.
- · Can display multiple full HD & Flash videos .
- Support DDR3 SO-DIMM memory up to 8GB.
- · Choice of system expansion options offered among different models: LEC-2220P (One Slot expansion for PCI or PCIe); LEC-2220P2 (Two Slots expansion for two PCIs)
- Mini-PCle with SIM card reader for 3G. Wi-Fi or Bluetooth.
- · Dual display interfaces: DVI-I & DVI-D.
- · Onboard 2 Intel Gigabit Ethernet ports.
- · 4 USB ports, 6 COM ports, 4 IN 4 Out DIO.
- · Innovative design of a remote power on/off switch via terminal block connector which allows user to control power on/off from a desired distance.
- · SATA connector with support of SATA DOM with 5V power

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· Wide range of voltage input from 9 to 30V.

- · Intelligent cooling: fan turn on when the system reaches dedicated setting temperature that improve the product reliability and overall MTBF
- Equipped with terminal block connector which is reliable for connecting industrial equipments.
- · Operating Temperature Range from -20 to 55 °C.
- · Mounting options include standalone, VESA mount or wall mount

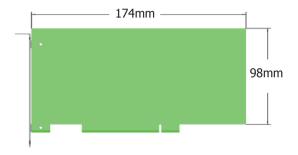


Highlights

PCI or PCIe Expansion

Using a PCIe or PCI riser card, users have choice of either PCI or PCI Express 1x expansion:

1x PCI or PCIe can be supported by the LEC-2220p model 2x PCI slots can be supported by the LEC-2220P2 model Both of PCI or PCIe support the Max. Dimension as following and the Max. Power Consumption reserved for expansion is 25W total.



Specifications

Dimension (WxHxD)		277x(67/89)x194mm		
		10.91"x(2.64/3.50)"x7.64"		
Processor		Intel i7/i5/Celeron		
Chipset		HM55		
System	Technology	DDR3 SO-DIMM x2		
Memory	Max. Capacity	Up to 8GB		
C1	IDE	N/A		
Storage	SATA	2.5" HDD/SSD drive bay x1,SATA-DOMx1		
Ethernet Controller		Intel 82574L x 2		
Graphic Controller		Intel® GMA HD Graphics Engine		
Audio Controller		ALC 888S		
	LAN	GbE RJ45 x2		
	Dienless	DVI-I x1		
	Display	DVI-Dx1		
	Video Grabber	No		
	Audio	Phone Jack x2 for Mic-in and Line-out		
		Totally 6: DB9 x2 for RS232/422/485 x1 and		
	Serial I/O	RS232 x1, 10-pin Terminal Block for RS232 x3		
IO		and RS232/422/485 x1		
	GPS	No		
	Digital I/O	DB9 Female x1 for DI x4 & DO x4 (5V TTL)		
	USB 2.0	Type A x4; Internal x2		
	Power Input	Terminal Block 2-pin		
		Mini-PClex1 with SIM Card Reader		
	Expansion	LEC-2220P: PCI x1 or PCIe x1		
		LEC-2220P2: PCI x2		
Power In	put	+9~30Vdc, ATX Mode		
AC Adapter		75W +19V @ 3.95A		
Hardware Monitor		Fintek F81865 integrated		
		Watchdog Timer 1~255 level		
OS Support		Linux , XPE/WES2009, XP PRO FES		
		WS7E, WS7P, WIN 7 PRO-E		

Certification CE, FCC Class A

Operating Temperature Range with Industrial Components:

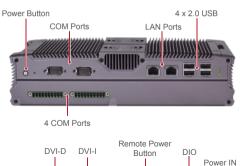
(Industrial Memory, CF, HDD, SSD....) -20~55°C/14~131°F

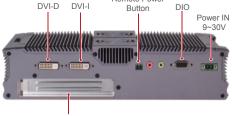
Operating Temperature Range with Commercial Components: -5~45°C/23~113°F

High/Low Extended Operating Temperature Tested:

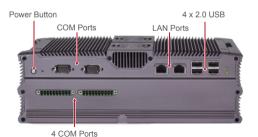
No Damage after 72-hours full-loading operating @ 70°C Bootable after 24-hours @ -40°C

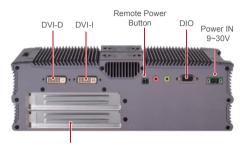
Versatile I/O Ports





LEC-2220P: One Slot Expansion (PCI or PCIe)

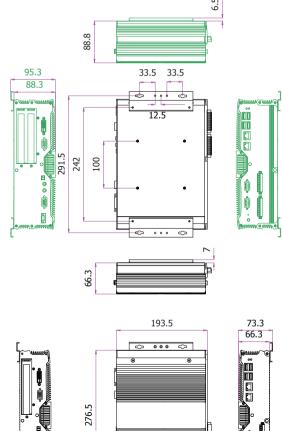




LEC-2220P2: Two PCI Expansion

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Dimensions (Unit:mm)



■ LEC-2220P Riser Options - PCI or PCIe Riser Card

Item	Description
LEK-PA1	Optional Riser for LEC-2220 to support PCI expansion
LEK-EA1	Optional Riser for LEC-2220 to support PCIe expansion

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Ordering information

Model	Description	
LEC-2220P	Intel i7/i5/Celeron socket CPU support, DDR3 SO-DIMM x2, w/ 6 COMs, DVI-I / DVI-D Display, Dual Intel GbE, DIO (4 in 4 Out), Audio, +9~30V DC input support, one PCI or PCIe Expansion	
LEC-2220P2	Intel i7/i5/Celeron socket CPU support, DDR3 SO-DIMM x2, w/ 6 COMs, DVI-I / DVI-D Display, Dual Intel GbE, DIO (4 in 4 Out), Audio, +9~30V DC input support, two PCI Expansions	

Major standard accessories list:

Item	Part Number	Description
SATA Cable	080W1N2201001	SATA Cable w/Power
Terminal Block	04AW2010O101	Terminal Block-10 Pin (2pcs)
Terminal Block	04AW20023Z101	2-Pin for Power SW (1pcs)
Wall Mount	SE9ESA8740100	Refer to page 145
AC Adapter	0P0W075190001	75W, 19V/3.95A, Terminal Block

Optional accessories - Power Cord For details, refer to page 34

Intel Long Term Support Embedded CPU Options:

CPU	Description	
Intel i7 620M 011WSC2661I01	Intel® Core™ i7-620M Processor (4M Cache, 2.66 GHz)	
Intel i5 520M	Intel® Core™ i5-520M Processor	
011WSC2401I01	(3M Cache, 2.40 GHz)	
Celeron P4500	Intel® Celeron® Processor P4500	
011WSC1861I01	(2M Cache, 1.86 GHz)	

Optional accessories - 3G, Wi-Fi, Video Module For details, refer to page 153~156

Item	Part Number	Description
3G Module	0TAWMC8790Z01	Sierra MC8790
3G Module	0TAW0EM770Z01	HuaWei EM770W (** MOQ 200)
Wi-Fi Module	0TAWQ802XKZ02	802.11 b/g/n Mini-PCle card