Lanner
creating value in applied computing

LUGE: LEC-2010

Fanless Intel® Atom™ 1.6Ghz embedded system with VGA, DVI-D,
up to 6 COM ports, Dual LAN, USB and CF, SATA drive support, and PCI or PCI-E expansion
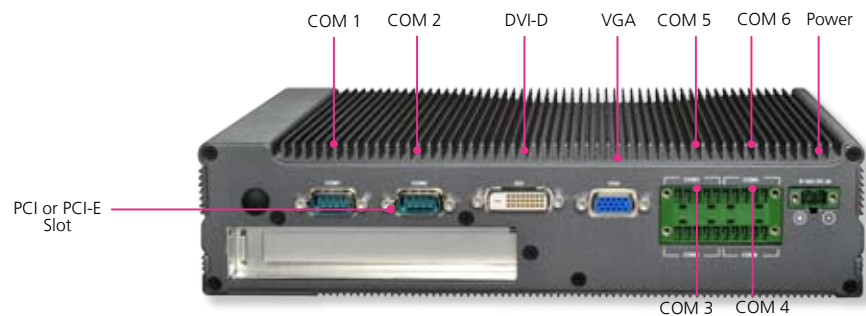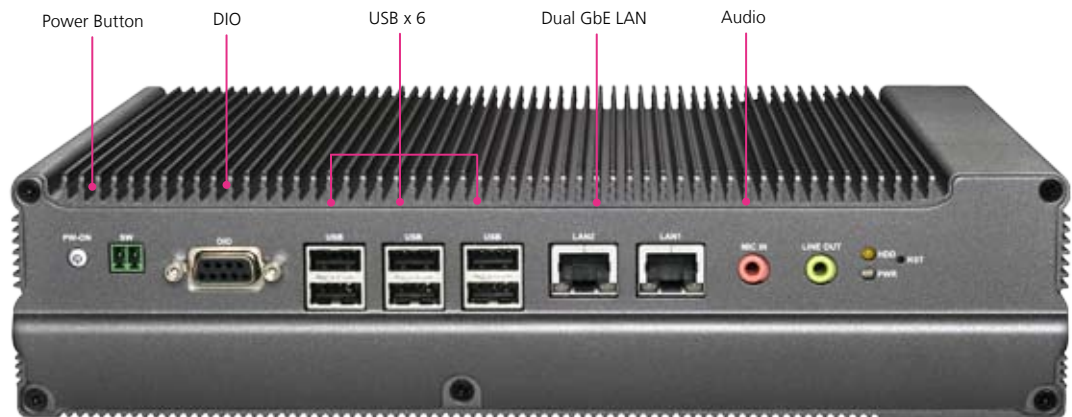
VGA

DVI-D

PCI-E

USB

CF

SATA

COM

LAN

Power Button   DIO   USB x 6   Dual GbE LAN   Audio

COM 1   COM 2   DVI-D   VGA   COM 5   COM 6   Power

PCI or PCI-E
Slot

COM 3   COM 4

FEATURES

- Intel® Atom™ 1.6 GHz onboard CPU

- PCI or PCI-E expansion slot

- Robust fanless enclosure

- 65mm height industrial case with heat dispersing fins

- -10°C to 55°C operating temperature with short burst overspec allowance

- Supports up to 2GB DDR2 memory

- Dual 10/100/1000 Mbps LAN

- USB x 6, COM x 6

- CompactFlash Type I/II or SATA HDD support

EMBEDDED SYSTEM WITH FANLESS THERMAL DESIGN

The LEC-2010 is a fanless embedded system designed for intelligent industrial and commercial applications. It features extensive I/O interfaces, PCI or PCI Express expansion slot, and an onboard Intel® Atom™ embedded processor for exceptional performance with very low heat generation and minimal cooling requirements, resulting in improved stability and longevity, and providing a higher return on investment.
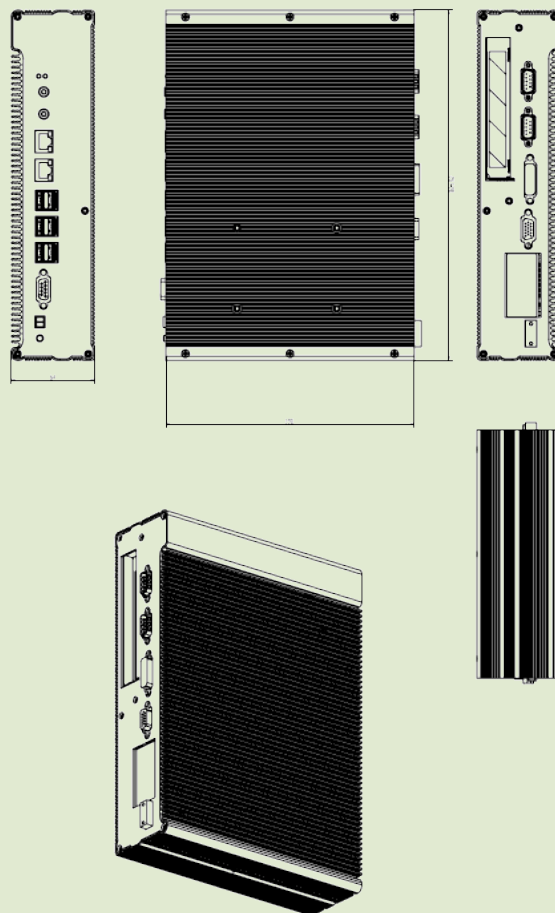
ATOM

To provide even more flexibility, Lanner's engineers have built the case of tough aluminum with heat dispersing fins to whisk away heat from the processor and allow the system to operate in harsh environments.

ROHS compliant   CE   FC

intel
Embedded and
Communications
Alliance Associate

FEATURE	DESCRIPTION	
Platform	Processor	Onboard Intel® Atom™ 1.6 GHz
	Chipset	Intel 945GSE+ICH7M
	BIOS	AMIBIOS with 8Mbit BIOS Flash
System Memory	Technology	533 MHz DDR2 SDRAM
	Socket	200P SODIMM x1
	Onboard Memory	1GB DDR2 onboard
	Max	2GB
Storage Interface	CompactFlash I/II	1
	SATA Port	1
Display	Interface	D-Sub 15-pin (Max Res. 2048 x 1536)
		DVI-D (Max Res. 1600 x 1200)
Audio	Codec	ALC888 HD Codec
I/O	Serial	RS-232 x 4 RS-232/422/485 x 2 (COM 2 & 3)
	VGA	1
	DVI-D	1
	Digital I/O	DB9 Female 4 in 4 Out
	USB 2.0	6
	LAN	RJ45 x 2 (GbE RT8111C)
	Mic In / Line Out	1 / 1
Expansion		Mini-PCIe x 1
	LEC-2010P	PCI x 1 (LEC-2010P)
	LEC-2010E	PCIe (x1) x 1 (LEC-2010E)
Hardware Monitoring	Controller	Winbond W83627UHG integrated hardware monitor
	Watchdog timer	Reset supported, 1~255 level
OS Supported		Linux kernel 2.4.16 or above, XPE/Win XP-32 bit, Win CE 6.0
Power	Input	DC 9V~36V (ATX Mode)
	Power Adapter	75W, 100 ~ 240 VAC input
Environmental Parameters	Temperature, ambient operating	-10°~55°C (with industrial grade components - CF card, HDD, memory, adapter) with overspec allowance for short periods. ask for details
		-5~45°C (with 2.5" commercial HDD)
	Humidity (RH), ambient operating	0~90%, non-condensing
Physical Dimensions	Dimensions	190D x 268W x 65H mm
	Weight	2.6Kg (without HDD)

ORDERING INFORMATION

LEC-2010P   Fanless Embedded System with Intel Atom 1.6 GHz CPU, VGA, DVI, CF Socket and PCI expansion slot

LEC-2010E   Fanless Embedded System with Intel Atom 1.6 GHz CPU, VGA, DVI, CF Socket and PCI Express expansion slot

MECHANICAL DRAWING

About Lanner

Founded in 1986 and publicly listed (TAIEX 6245) since 2003, Lanner Electronics Inc. is an ISO 9001 certified designer and manufacturer of reliable, frontline security, storage and applied computing platforms and solutions. With headquarters in Taipei, Taiwan and branches in the U.S. and China, Lanner is uniquely positioned to deliver custom technical solutions with localized, value-added service.

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