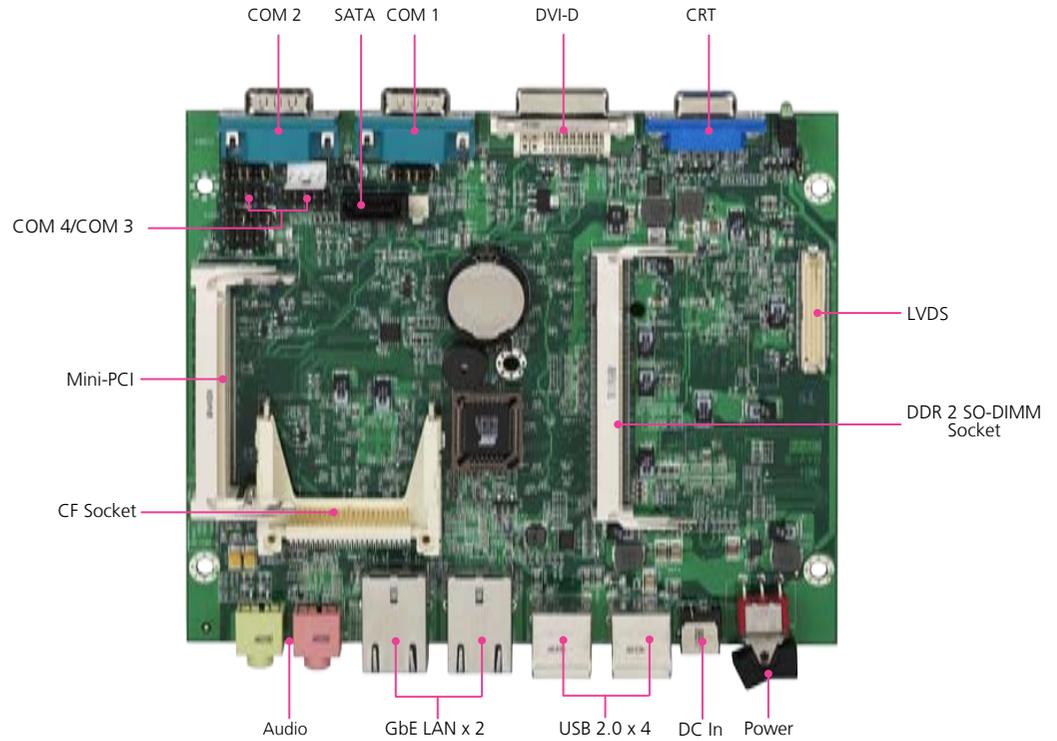**Lanner**
creating value in applied computing
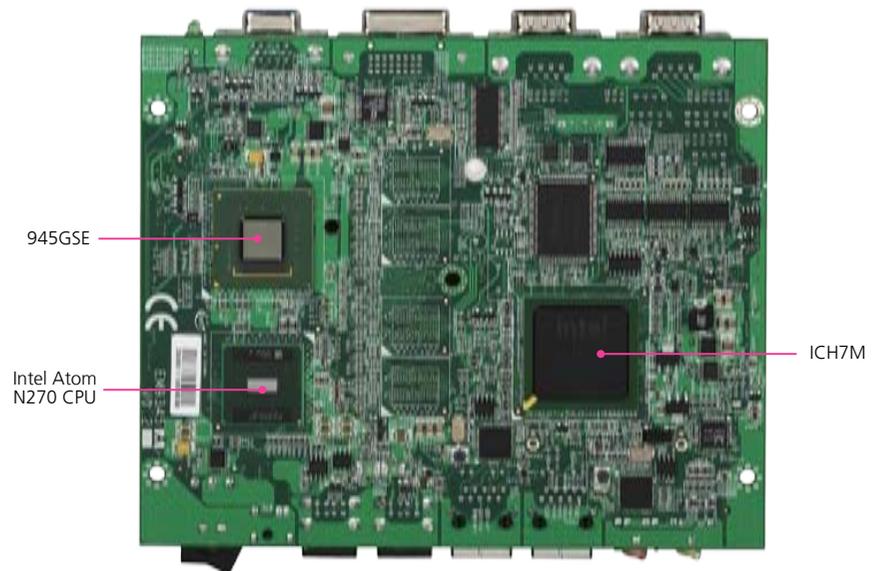
VES-400

4.5" Intel Atom Fanless Embedded Board with VGA, DVI-D, Audio, LAN x 2, USB x 4, CompactFlash

Atom

DVI-D

AUDIO

LAN x 2

CF

USB x 4

COM

VGA

COM 2   SATA   COM 1   DVI-D   CRT

COM 4/COM 3

Mini-PCI

CF Socket

LVDS

DDR 2 SO-DIMM Socket

Audio   GbE LAN x 2   USB 2.0 x 4   DC In   Power

FEATURES

- Onboard Intel Atom 1.6 GHz (N270)
- Fanless design
- 4 COM ports
- 4 USB ports
- 2 GbE LAN ports
- Max 2GB DDR2 400/533 MHz RAM
- Multi-OS Support (XP, Linux, 2K)
- Realtek ALC 888 HD Audio
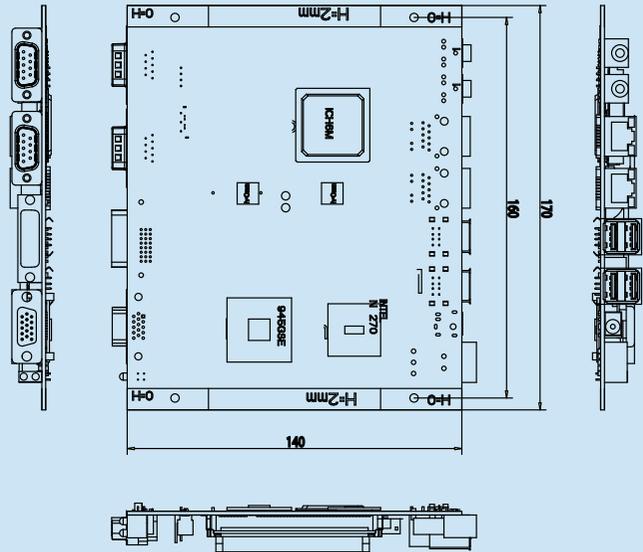- Mini-PCI and CompactFlash

945GSE

Intel Atom
N270 CPU

ICH7M

FEATURE	DESCRIPTION	
Platform	Form Factor	4.5" Embedded board
	Processor	Onboard Intel Atom 1.6GHz (N270)
	Chipset	945GSE+ICH7M
	FSB	533 MHz
	BIOS	AMI BIOS with 8Mbit Flash
System Memory	Technology	DDR2 400/533 SO-DIMM
	Max Capacity	2GB
Storage Interface	HDD Interface	SATA Port x 1
	SSD	CompactFlash Socket
Networking	Speed	10/100/1000 Base-Tx Gigabit Ethernet
	Ports	RJ45 x 2
	Controller	Realtek RTL8111C-VC-VR
Display	VGA	D-Sub 15-pin connector
	DVI-D	SDVO to DVI Transmitter for DVI-D Output
	LVDS Connector	Built-in 40 Pin Hirose LVDS Connector
Audio	Codec	Realtek ALC 888 HD Codec
	I/O	Mic-in, Line-out
I/O Interface	RJ45 Ethernet	2
	USB 2.0	4
	COM	2 + 2 via pin headers
	Super I/O Controller	Winbond 83627UHG
Expansion		Built-in Mini-PCI Socket for Mini PCI Wireless Module/Wi-FI Module
Hardware Monitoring	Watchdog timer	Reset supported,1-255 Level
OS Supported		Linux Kernel 2.41.6 or above Windows XP 32 bit Embedded XP
Environmental Parameters	Temperature, ambient operating	0~60°C (CPU dependent)
	Humidity (RH), ambient operating	0~90% relative humidity, non-condensing
	Storage Temperature	-20~80°C
Physical Dimensions	Dimensions	170 mm x 140 mm
Power	Input	DC +12V, AT mode
Compliance		CE, RoHS

ORDERING INFORMATION

VES-400   4.5" embedded motherboard with Intel Atom N270 CPU onboard, VGA, DVI, Audio, 2 x COM, 4 x USB, SATA port, dual LAN

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., India, and China, Lanner is uniquely positioned to deliver custom technical solutions with localized, value-added service.

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