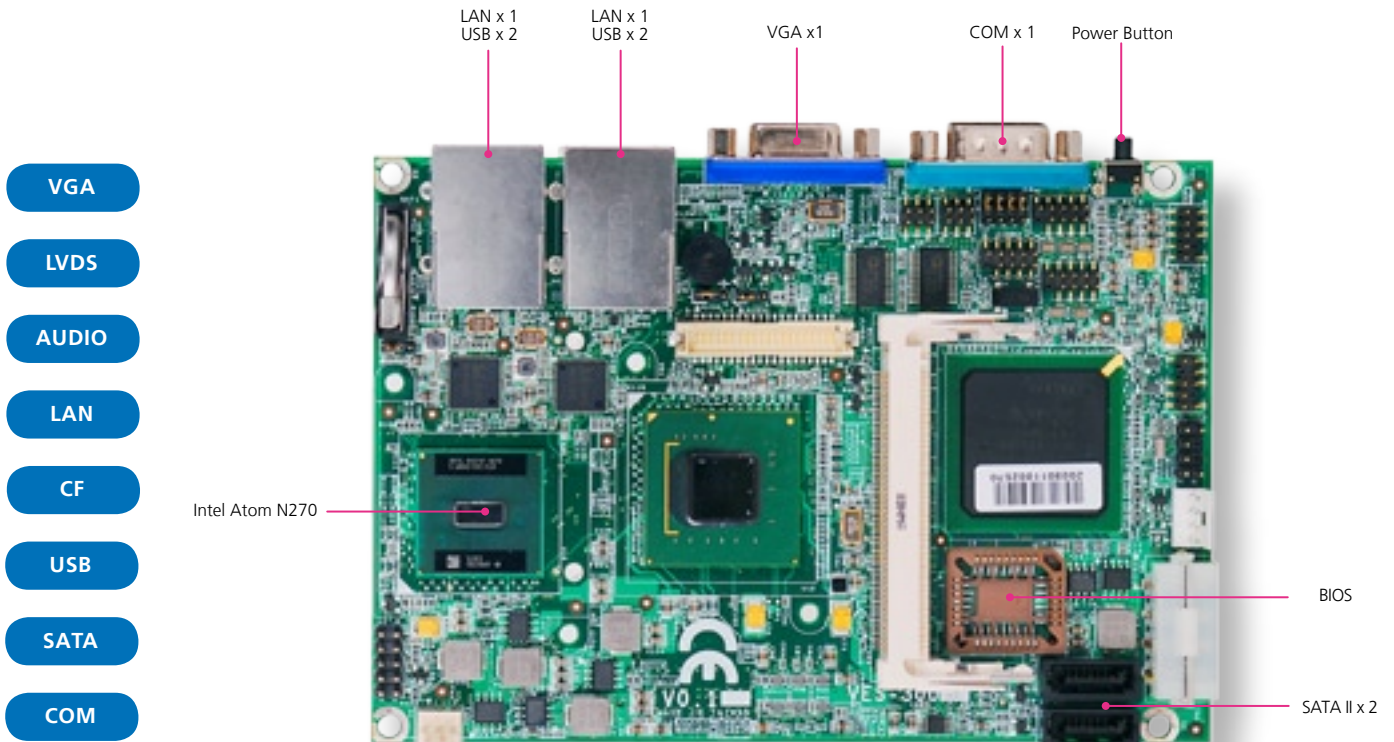


# VES-300

3.5" Intel Atom based SBC with with VGA, dual LAN, audio, 6 USB and 4 COM ports



## FEATURES

- Onboard Intel Atom N270 CPU, 1.6GHz
- 1 x DDR2 SO-DIMM, 2GB Max, 533MHz
- 945GSE integrated graphics, VGA and LVDS
- 24 bit single channel or 48 bit dual channel LVDS
- CompactFlash socket, SATA port
- Two Gigabit Ethernet ports
- 4 COM ports, 6 USB ports
- Watchdog monitor with RTC and battery

## ULTRA-LOW VOLTAGE

Take advantage of solid processing power while reducing consumption. Lanner embedded systems offer ultra-low power options for environmentally-friendly and economical industrial deployment.



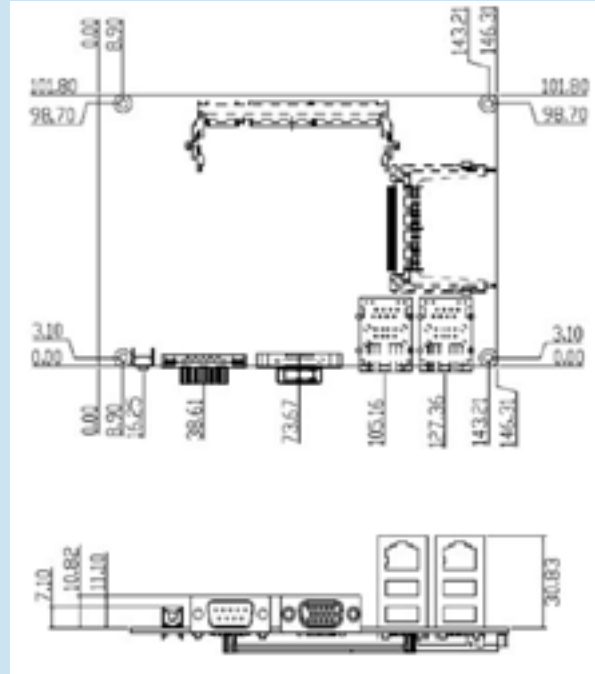
The Lanner VES-300 is an Intel Atom-based 3.5" single-board computer designed for low power, low cost industrial applications. Extensive I/O including 6 USB ports, 4 COM ports and two Ethernet ports provide sufficient communications for a wide variety of industrial and commercial projects, while the efficient Atom processor provides stable operation with minimal power consumption.

| FEATURE                         | DESCRIPTION   |  |
|---------------------------------|---|--|
| <b>Platform</b>                 | Form Factor   | 3.5" Embedded board  |
|                                 | Processor   | Intel Atom 1.6Ghz CPU onboard (Intel N270)   |
|                                 | Chipset   | 945GSE+ICH7M   |
|                                 | BIOS  | AMI BIOS with 8Mbit Flash  |
| <b>System Memory</b>            | Technology  | DDR2 400/533 MHz   |
|                                 | Max Capacity  | 2GB  |
|                                 | Socket  | SO-DIMM x 1  |
| <b>Storage Interface</b>        | Hard Drive Interface  | SATA x 2   |
|                                 | SSD   | CompactFlash I/II x1   |
| <b>Networking</b>               | Speed   | 10/100/1000 Mbps Base-Tx Gigabit   |
|                                 | I/O   | RJ45 x 2 Ethernet  |
|                                 | Controller  | Realtek RTL8111C-VC-VR   |
| <b>Display</b>                  | Controller  | Intel GMA950   |
|                                 | Shared memory   | 128MB shared memory  |
|                                 | Resolution  | CRT: 1920x1440; Panel: 1600x1200   |
|                                 | Output  | D-Sub 15-pin connector   |
| <b>Audio</b>                    | Controller  | Realtek ALC 888 HD Codec   |
|                                 | I/O   | Mic-in, Line-out   |
| <b>I/O Interface</b>            | Serial Ports  | Front I/O: 1 x RS232/422/485 (D-Sub 9 pin)<br>Pin Header: 3 x RS32 only via 2x5 pin header |
|                                 | USB 2.0   | Front I/O: 4<br>Pin Header: 2 (2 x 5 pin header, 2 mm pitch)                               |
|                                 | Hardware Monitoring   | Controller: Winbond 83627UHG<br>Watchdog timer: Reset supported, 1-255 level               |
| <b>Cooling</b>                  | Passive heatsink  |  |
| <b>OS Supported</b>             | Linux kernel 2.4.16 or above, Windows XP (32-bit), Windows 2000, XP Embedded, CE Embedded 6.0 |  |
| <b>Environmental Parameters</b> | Temperature, ambient operating  | 0~60°C (32~140°F)  |
|                                 | Humidity (RH), ambient operating  | 5~95% relative humidity, non-condensing  |
|                                 | Storage Temperature   | -20~70°C (-4~158°F)  |
| <b>Physical Dimensions</b>      | Dimensions  | 146 mm x 101mm (5.7" x 4")   |
| <b>Power</b>                    | Input   | DC +12V  |
|                                 | Form Factor   | AT support   |
| <b>Compliance</b>               | CE, FCC, RoHS   |  |

## ORDERING INFORMATION

**VES-300** 3.5" SBC with onboard Intel Atom N270 CPU, VGA, dual LAN, HD audio, 4 COM and 6 USB ports

## 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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