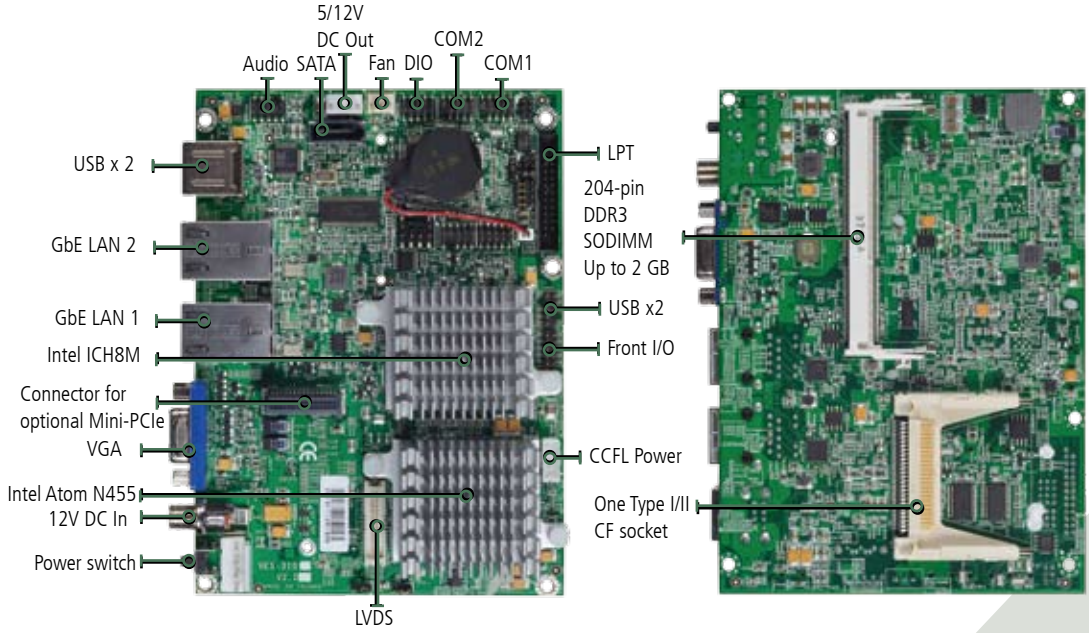
VES-310 v2.1

3.5" Intel® Atom™ N455 based SBC with VGA, LVDS, Dual LAN, 4 USB and 2 COM Ports



Features

- **Intel® Atom™ N455 Processor with Intel® ICH8M Chipset**
- **Wide Temperature -20 ~ 60°C**
- **One 204-pin SODIMM Up to 2 GB DDR3 SDRAM**
- **Single-channel 18-bit LVDS**
- **Intel® Integrated Garphics; Support VGA and LVDS output**
- **Dual GbE LAN ports**
- **2 x USB Type A, 2 USB pin-header, 2 x COM, 1 x DIO (4 in, 4 out)**
- **CompactFlash Type I/II or SATA HDD support**
- **Optional Mini-PCIe socket**

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Specifications

System	
CPU	Intel® Atom™ N455 Processors
BIOS	AMI 16Mbit SPI BIOS
System Chipset	Intel® ICH8M Chipset
System Memory	One 204-pin SODIMM Socket, Supports Up to 2 GB DDR3 SDRAM
Expansion	Mini-PCIe socket (by optional LEK-TUM)
I/O	
MIO	1 x SATA ports, 1 x internal type I/II CF socket
USB	2 x USB 2.0 Type A, 2 x USB pin header
DIO	1 x 2x5 pin header for 4-in and 4-out digital I/O
Display	
Chipset	Intel Integrated Graphics
VGA	1
LVDS	1 x 2x15-pin LVDS output, Single-channel 18-bit LVDS
Audio	
Chipset	Realtek ALC886 HD audio codec
Interface	1 x 2x5 pin header to support Line-out and Mic-in
Ethernet	
LAN Chip	2 x Realtek RTL8111E PCI express 1x Ethernet controller
Ethernet Interface	RJ45 with LED, 10/100/1000Mbps
Mechanical & Environmental	
Power Requirement	+12V DC-in
Cooling	2 heatsinks
Power Type	ATX
Operating Temperature	-20 ~ 60°C (-4 ~ 140°F)
Storage Temperature	-20 ~ 70°C (-4 ~ 158°F)
Operating Humidity	5% ~ 95% Relative Humidity, Non-condensing
Size (L x W)	146 mm x 105 mm
Weight	0.2 kg (0.44 lbs)

Ordering Information

VES-310 v2.1	3.5" Intel® Atom™ N455 based SBC with VGA, LVDS, Dual LAN, 4 USB and 2 COM Ports
LEK-TUM	Mini-PCIe socket module with SIM card reader for VES-310