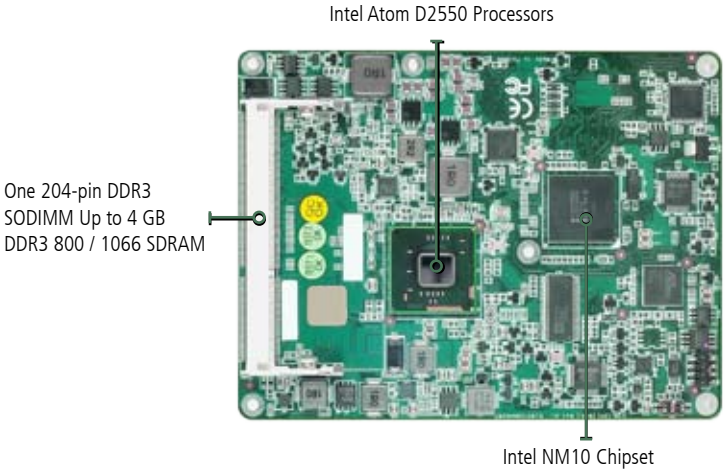
VES-220

COM Express® R2.0 Type 2 Module with Intel® Atom™ D2550 CPU and NM10 Chipset



Overview

The VES-220 is a COM Express® computer-on-module featuring low power Intel Atom D2550 2-core CPU and NM10 chipset. Based on COM Express R2.0 Type 2 specification, this CPU module is designed as a flexible evaluation board to reduce development time, minimize cost and protect core competency.

Features

- **Intel® Atom™ D2550 Processor**
- **Intel® NM10 Chipset**
- **One 204-pin SODIMM Up to 4 GB DDR3 800 / 1066 SDRAM**
- **Dual-channel 24-bit LVDS**
- **Intel® High Definition Audio**
- **Intel® 82574 Gigabit Ethernet**
- **4 PCIe x1, 2 PCI, LPC, SMBus**
- **2 SATA, 1 PATA, 8 USB, 8-bit GPIO**
- **Type 2 Pin-out**

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Preliminary Specifications

System	
CPU	Intel® Atom™ D2550 Processors
BIOS	AMI 16Mbit SPI BIOS
System Chipset	Intel® NM10 Chipset
System Memory	One 204-pin SODIMM Socket, Supports Up to 4 GB DDR3 800 / 1066 SDRAM
Expansion	4 PCIe x1, 2 PCI
I/O	
MIO	2 SATA ports, 1 PATA, LPC, SMbus
USB	8 x USB 2.0
DIO	4-bit GPI and 4-bit GPO
Display	
Chipset	D2550 Integrated Graphics One CH-7511B Onboard
Resolution	VGA Mode: 1920 x 1200 LVDS Mode: 1920 x 1080
LVDS Interface	Dual-channel 24-bit LVDS
Audio Interface	
Chipset	Intel® NM10 Integrated
Interface	Intel® High Definition Audio
Ethernet	
LAN Chip	Intel® 82574L Gigabit Ethernet
Ethernet Interface	10/ 100/ 1000 Base-Tx Gigabit Ethernet Compatible
Mechanical & Environmental	
Power Requirement	+9 ~ +19 V
ACPI	Single Power ATX Support S0, S3, S4, S5, ACPI 3.0 Compliant
Power Type	AT / ATX
Operating Temperature	0 ~ 60°C (32 ~ 140°F)
Storage Temperature	-40 ~ 75°C (-40 ~ 167°F)
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Size (L x W)	125 mm x 95 mm (5" x 3.7")
Weight	0.2 kg (0.44 lbs)

Ordering Information

VES-220	COM Express® R2.0 Type 2 Module with Intel® Atom™ D2550 CPU and NM10 Chipset