



### Features

- Onboard Intel® Atom™ D525 Dual-Core 1.8GHz CPU
- Intel® ICH8-M Chipset
- One 204-pin SODIMM Socket Supports Up to 4GB DDR3 1066/1333 SDRAM
- Dual View, Single-channel 18-bit LVDS, VGA
- 5.1-CH HD Audio
- Dual Intel® 82574L Gigabit Ethernet
- 1 CF, 1 Mini PCIe Card
- 2 SATA, 2 COM, 6 USB, 16-bit GPIO
- Optional AUX-035 for Dual-channel 18/ 24-bit LVDS
- Optional Built-in Touch Screen Interface

### Specifications

#### System

• CPU	Intel® Atom™ D525 Dual-Core 1.8GHz CPU
• FSB	667/ 800MHz
• BIOS	AMI 8Mbit Flash BIOS
• System Chipset	Intel® ICH8-M
• I/O Chip	Nuvoton W83627DHG-P
• System Memory	One 204-pin SODIMM Socket Supports Up to 4GB DDR3 1066/1333* SDRAM (*Due to CPU spec limitation, the data transfer rate of DDR3 will be limited to 800MT/s only.)
• SSD	One CompactFlash Type I/II Socket
• Watch Dog Timer	Reset: 1 ~ 255min. and 1sec. or 1min./step
• Expansion	1 x Mini PCIe Card (mSATA Support)

#### I/O

• MIO	2 x SATA, 1 x RS-232, 1 x RS-232/ 422/ 485, 1 x KB & Mouse (Optional)
• USB	6 x USB 2.0
• DIO	16-bit General Purpose I/O for DI and DO

#### Display

• Chipset	Intel® Pineview Integrated, GMA3150 @ 400MHz
• Resolution	VGA Mode : Up to 2048 x 1536 @ 60Hz
• Multiple Display	CRT + LVDS
• LCD Interface	Single-channel 18-bit LVDS Dual-channel 18/24-bit LVDS (Optional via AUX-035)

#### Built-in Touch Screen (Optional)

• Chipset	PenMount 6000
• Touch Screen Interface	With 9-pin 2.0mm Box Header (Can be Selected to Support 4/ 5/ 8-wire Touch Screen)

#### Audio

• Chipset	Intel® ICH8-M
• HD Codec	Realtek ALC888 Supports 5.1-CH HD Audio
• Audio Interface	Mic-in, Line-in, Line-out

#### Ethernet

• LAN	Dual Intel® 82574L Gigabit Ethernet
• Ethernet Interface	1000 Base-Tx Gigabit Ethernet Compatible

#### Mechanical & Environmental

• Power Requirement	+12V ~ +26V
• Power Type	Single Power 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)	5.7" x 4" (146mm x 101mm)
• Weight	0.44lbs (0.2kg)

### Ordering Information

- **ECM-PNV**  
Intel® Atom™ D525 Dual-Core 3.5" Micro Module with Intel® ICH8-M Chipset
- **AUX-035**  
Dual-Channel 18/ 24-bit LVDS Adaptor for PNV Series
- **ACC-CF-xx**  
CompactFlash Card Series (xx = Capacity, Capacity Option: 128, 256, 512MB, 1, 2, 4, 8GB)
- **ACC-MEM-xx**  
Memory Series (xx = Capacity, Capacity Option: 256, 512MB, 1, 2GB)

- 1 Embedded System
- 2 Qseven Module
- 3 ETX/XTX COM Express
- 4 3.5" SBC
- 5 EPIC
- 6 5.25" SBC
- 7 ATX
- 8 Micro ATX
- 9 Mini ITX
- 10 Nano ITX
- 11 ACP
- 12 Rack Mount System
- 13 Mini ITX System
- 14 Peripherals
- 15 Index