



Features

- Onboard Intel® Atom™ N270 1.6 GHz CPU
- Intel® 945GSE / ICH7-M Chipset
- Onboard 1G DDR2 memory
- Dual-Channel 18-bit LVDS
- 2 PCIe Mini Card slots

Atom™

Intel®
945GSE1GB
DDR22-CH
LVDS2 PCIe
Mini Card

Specifications

System

- **CPU** Intel® Atom™ N270 1.6 GHz Processor with 533 FSB / 512KB L2 Cache
- **BIOS** Award 8 Mbit Flash BIOS
- **System Chipset** Mobile Intel® 945GSE Express Chipset / Intel® I/O Control Hub 7M
- **System Memory** Onboard 1G DDR2 667 MHz SDRAM
- **Watchdog Timer** Reset: 1 sec.~255 sec. and 1 sec./step (from ICH7-M)
- **HW Monitoring** Monitoring temperatures, voltages and fan status with auto throttling control

Display

- **Chipset** Intel® 945GSE Integrated
- **Display Memory** Intel® DVM T 3.0 Supports up to 224 MB Shared Video Memory
- **Resolution** CRT mode: 2048 x 1536 @ 60 Hz
LCD/Simultaneous mode (4:3): 1600 x 1200 @ 75 Hz
Widescreen mode: 1920 x 1200 @ 65 Hz
- **Multiple Display** CRT + LVDS
- **LCD Interface** Dual-Channel 18-bit LVDS

SATA

- **SATA** 2 x Serial ATA ports
Support CFast via AUX board
Support Secure Erase via AUX board

I/O

- **USB** 6 x USB 2.0 ports (4 for edge connector)
- **K/B & Mouse** 1 x PS/2 Keyboard and Mouse

Expansion

- **Expansion** 2 x PCIe Mini Card slots
AUX Interface

Ethernet

- **Ethernet controller** Intel® 82583V GbE Controller
Full duplex operation at 10/100/1000 Mb/s
Half duplex operation at 10/100 Mb/s Auto MDI, MDI-X crossover

Mechanical & Environmental

- **Power Requirement** Accepts +12V input from AT/ATX power supply or +15~28V via AUX board
- **ACPI** Single power ATX Support S0~S5 ACPI 2.1B
- **Power Type** Single Power AT / ATX
- **Operating Temperature** 0~60°C
- **Storage Temperature** -20~80°C
- **Operating Humidity** 0%~90% relative humidity, non-condensing
- **Size (L x W)** 5.7" x 4" (146 mm x 101 mm)
- **Weight** 0.57 lbs (260 g)



ECM-945GSE+

3.5" Intel® 945GSE Atom™ N270 Micro Module

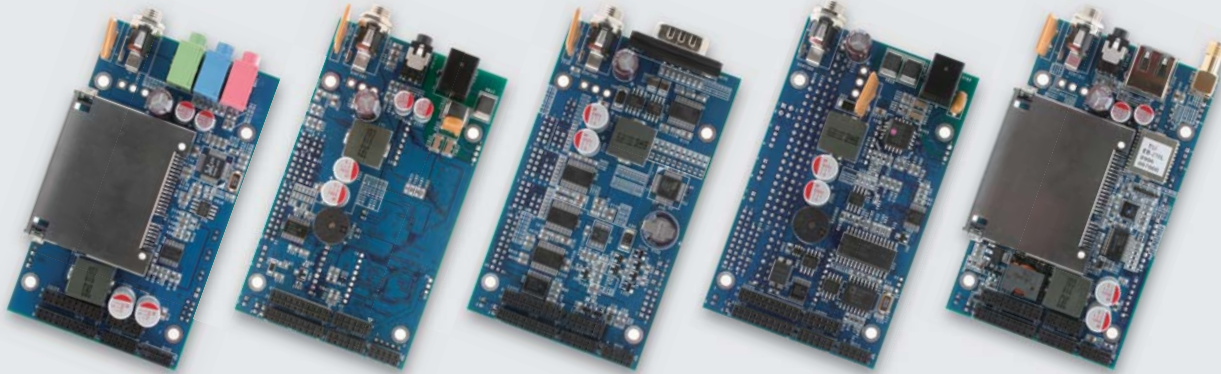
AUX-301

AUX-302

AUX-303

AUX-304

AUX-305



Specifications

Model Name	AUX-301	AUX-302	AUX-303	AUX-304	AUX-305
• SSD	CFast Socket	--	--	--	CFast Socket
• Secure Erase	--	--	2	--	--
• Smart Battery Charger	--	--	--	--	Maxim MAX1535C with power path function
• GPS	--	--	--	--	TRANSYSTEM EB-250
• Gyro	--	--	--	--	InvenSense IDG-500
I/O					
• I/O Chip	--	Fintek 81216DG	Fintek 81216DG	Fintek 81216DG	Fintek 81216DG
• USB	--	1 x USB 2.0	2 x USB 2.0	N/A	1 x USB 2.0
• Serial Port	--	2 x RS-232	4 x RS-232	1 x RS-232 1 x RS-485, 1 x CAN bus	2 x RS-232
• i-Button	--	1	--	--	1
• MODEM	--	Socket MODEM (RJ11)	--	Socket MODEM (RJ11)	--
• DIO	--	8-bit GPI, 8-bit GPO	8-bit GPI, 8-bit GPO	8-bit GPI, 8-bit GPO	--
• PC/104	--	--	--	PC/104	--
Built-in Touch Controller					
• Chipset	--	PenMount 6000	--	--	PenMount 6000
• Touch Screen Interface	--	With 9-pin 2.0mm box header (5 wire touch screen)	--	--	With 9-pin 2.0mm box header (5 wire touch screen)
Audio					
• AC97 Codec	Realtek ALC655 supports 5.1-CH Audio	Realtek ALC655 supports 5.1-CH Audio	--	--	Realtek ALC655 supports 5.1-CH Audio
• Audio Interface	Min In, Line in, Line out	Min In, Line out	--	--	Min In, Line out
• Audio Amplifier	Anpec APM4863 Audio Power Amplifier (4 x 1 wafer)	Anpec APM4863 Audio Power Amplifier (4 x 1 wafer)	--	--	Anpec APM4863 Audio Power Amplifier (4 x 1 wafer)
Mechanical & Environmental					
• Power Requirement	+15~28V	+15~28V	+15~28V	+15~28V	+15~28V
• Size (L x W)	101.6mm x 59.35 mm	101.6mm x 59.35 mm	101.6mm x 59.35 mm	101.6mm x 59.35 mm	101.6mm x 59.35 mm
• Weight	0.15 lbs (70 g)	0.15 lbs (70 g)	0.15 lbs (70 g)	0.15 lbs (70 g)	0.15 lbs (70 g)

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Embedded System

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LPC Series

3

PPC Series

4

FPC Series

5

VTP Series

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MTP Series

7

ETX/COM Express

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3.5" SBC

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EPIC

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Half-size

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5.25" SBC

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PC/104

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