



Two 204-pin
DDR3L SODIMM
Up to 8GB DDR3L
1333/1600 DRAM

Intel® Atom™ SoC Processor E3800 Product Family

Features

- Intel® Atom™ SoC Processors
- Two 204-pin DDR3L SODIMM Up to 8GB DDR3L 1066/1333 SDRAM
- Support Dual-channel 18/24-bit LVDS, Display Port, HDMI, DVI, VGA, eDP (Option)
- Intel® I211AT Gigabit Ethernet
- 2 SATA II, 7 USB 2.0, 1 USB 3.0, 8-bit GPIO
- HD Audio Interface
- +9 ~ +19V Wide Range Power Input
- Type 6 Pin-out
- Extended Temperature: -40 ~ +85°C

Embedded System

Qseven Module



COM Express /ETX/XTX

3.5" SBC

EPIC

5.25" SBC

ATX

Micro ATX

Mini ITX

Nano ITX

Rack Mount System

Mini ITX System

Peripherals

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Specifications

System

CPU	Intel® Atom™ E3845 (4C/1333), 1.91GHz, Gfx 542/792 MHz (Turbo), 10W TDP Intel® Atom™ E3825 (2C/1066), 1.33GHz, Gfx 533MHz (No Turbo), 6W TDP Intel® Celeron® J1900 (4C/1333), 2.0GHz, Gfx 792MHz (Turbo), 10W TDP Intel® Atom™ E3827 (2C/1333), 1.75GHz, Gfx 542/792MHz (Turbo), 8W TDP (Factory Option) Intel® Atom™ E3826 (2C/1066), 1.46GHz, Gfx 533/667MHz (Turbo), 7W TDP (Factory Option) Intel® Atom™ E3815 (1C/1066), 1.46GHz, Gfx 400MHz (No Turbo), 5W TDP (Factory Option)
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BIOS	AMI uEFI 64M or 128Mbit Flash ROM
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System Chipset	Valleyview SoC Integrated
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System Memory	Two 204-pin DDR3L SODIMM Socket, Supports Up to 8GB DDR3L 1066/1333 SDRAM
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Expansion	3 x PCIe1
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I/O

MIO	2 x Serial ATA ports SMBus, LPC, 1 x I ² C for VGA, 1 x I ² C for LVDS, UART
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USB	7 x USB 2.0, 1 x USB 3.0 Ports
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DIO	4-bit GPI, 4-bit GPO
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Display

Chipset	Intel® Atom™ SoC Integrated Graphics, Chromtel CH7511B (eDP to LVDS)
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Resolution	DP, eDP (2560 x 1600 @ 60 24bpp)
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LVDS Interface	Dual-channel 18/24-bit LVDS
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Display Supported	2 Display Pipes Supported (VGA, LVDS, DDI)
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Audio

Chipset	Valleyview SoC Integrated
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Interface	Intel® High Definition Audio
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Ethernet

LAN	Intel® I211AT Gigabit Ethernet
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Ethernet Interface	10/100/1000 Base-Tx Gigabit Ethernet Compatible
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Mechanical & Environmental

Power Requirement	+9 ~ +19V
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ACPI	Single Power ATX Support S0, S3, S4 ACPI 3.0 Compliant
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Power Type	AT/ATX
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Operating Temperature	Standard: 0 ~ 60°C Extended: -40 ~ 85°C
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Storage Temperature	-55°C ~ 85°C
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Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
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Size (L x W)	5" x 3.7" (125mm x 95mm)
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Weight	0.44lbs (0.2kg)
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Ordering Information

ESM-BYT

Intel® Atom™ SoC Processors COM Express Type 6 Module

EEV-EX14

COM Express Type 6 Carrier Board for Evaluation