

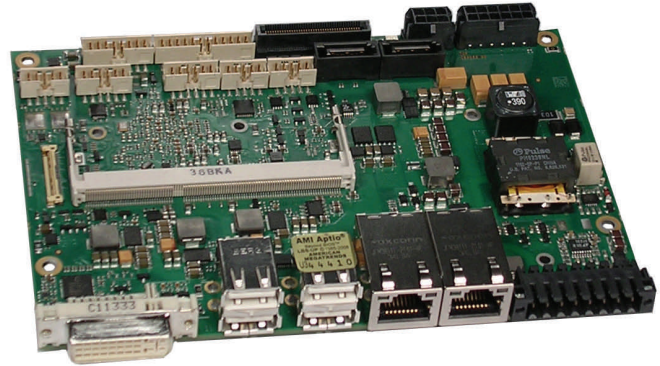


ADLE3800HD

Intel® E3800 Series SoC Processors
(Formerly Codenamed Bay Trail)

Features

- Intel® E3800 Series SoC processors; DC/Quad
- Up to 8 GB DDR3L-1333; 1.35V SoDIMM204 Socket
- 2x SATA 3 Gb/s
- 3x 10/100/1000 Mbit Ethernet LAN Port; Intel i210; 2x RJ45, 1x Pin Connector
- 8x USB 2.0 Total: 4x Standard USB connector, 4x pin connector
- I-PEX Connector for Custom DVI/HDMI/DP or 1x USB 3.0 Cabling
- DVI Connector with Analog VGA
- 1x RS232 Pin Connector; SCH3114 Controller
- 7.1 HD Audio with SPDIF In/Out
- 8 bit GPIO; PCA9535BS Controller via Intel SoC SMBus
- 1x PCIe x1 lane via 2x40pin Connector
- 4.0" x 5.8" (102mm 147mm) 3.5" SBC Format
- Input Power = 24VDC (Range 21V-30V)



Preliminary

Ordering Information

Item Code	Part #	Description
ADLE3800HD-XXXX		Intel E3800 Series SoC Processors; DC/Quad
Memory		
4GB DDR3L-1600	997600	DDR3L-1600 MHz 4GB Standard Temperature
4GB DDR3L-1600 EX	997602	DDR3L-1600 MHz 4GB Extended Temperature
8GB DDR3L-1600	997601	DDR3L-1600 MHz 8GB Standard Temperature
8GB DDR3L-1600 EX	997604	DDR3L-1600 MHz 8GB Extended Temperature
Options and Accessories		
ADL-ET	290000	Extended Temp Screen (-40° to +85° C)
Thermal Solutions		
ADLE3800HD-SPREADER		Chassis / Bulkhead mount heat spreader for ADLE3800HD
ADL35-BBHS	294152	Large Heatsink for Bench Testing
ADL35-SOSET	294156	Benchtop Stand-Off Set for ADL35-BBHS, M3, 6mm, 37mm

Description

The ADLE3800HD is based on Intel's first System-on-Chip (SoC) E3800 Atom product family which is built using Intel's 22nm 3D Tri-gate process. It offers vastly superior compute performance and energy efficiency and Intel's 7th generation graphics engine for stunning graphics performance. Improved power management capabilities result in standby power measured in milliwatts with days of standby time.

The ADLE3800HD graphics engine is capable of decoding 10 or more streams of 1080p video, has integrated hardware acceleration for video decode of H.264, MVC, VPG8, VC1/WMV9 and others standards. It also supports DirectX 11, Open GL 4.0, full HD video playback, and a maximum resolution of 2560 x 1600 @ 60Hz and dual-display support.

The ADLE3800HD is ideal for rugged, extended temperature embedded systems with a thermal junction temperature (Tj) ranging from -40C to 85C. It's well suited for extreme environments such as industrial control and automation and in-vehicle communication and infotainment systems for commercial transportation systems. It's superior graphics also make it ideal for rugged mobile computing, digital signage with secure content delivery, portable medical devices and interactive kiosks, vending, ATM and point-of-sale (POS) terminals.

Data subject to change without notice.