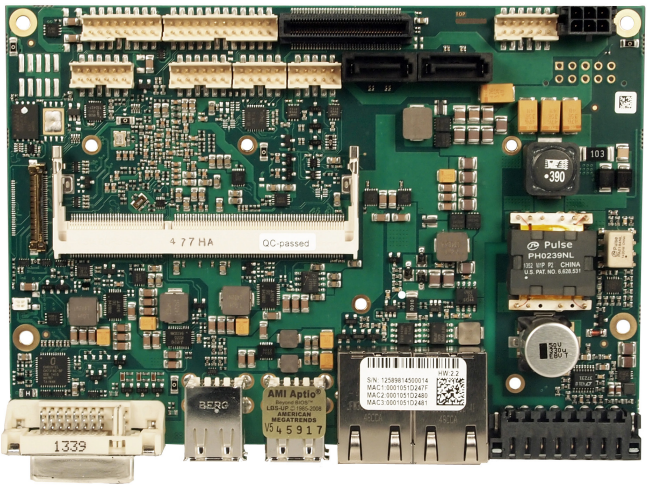
Embedded Solutions
SMARTER BY DESIGN®

ADLE3800HD 3.5" SBC

Intel® 3800 Series SoC Processors



RoHS compliant

APPLICATIONS

- Industrial control and automation
- In-vehicle fleet communication
- Rugged mobile computing
- Digital signage
- Portable medical devices
- Vending, ATM and POS terminals

FEATURES

- Intel® E3800 Series SoC Processors; DC/Quad
- Up to 8 GB DDR3L-1333; 1.35V SoDIMM204 Socket
- CPU TDP 8W to 10W
- 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
- I-PEX Connector for Custom DVI/
- DVI Connector with Analog VGA
- 1x RS232 Pin Connector; SCH3114 Controller
- 8 bit GPIO; PCA9535BS Controller via Intel SoC SMBus
- 1x PCIe x1 lane via 2x40pin Connector
- Windows 7, Windows 8, Windows 10, Linux Compatible
- 4.0" x 5.8" (102mm 147mm) 3.5" SBC Format
- Input Power = 24VDC (Range 21V-30V)

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.

ADLSST System Sensor Technology Utility

The ADLSST System Sensor Technology v2.0 utility brings to the Linux environment the same type of CPU health monitor functions that have previously been readily available only in the Windows environment. Click here to download the drivers.

***Data subject to change without notice.**

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ORDERING INFORMATION

ITEM CODE	PART #	DESCRIPTION
3.5-inch Board		
ADLE3800HD-E3845	294800	Intel E3845; QC, 1.91 GHz, 2MB, 10W TDP
ADLE3800HD-E3827	294802	Intel E3827; DC, 1.75 GHz, 1MB, 8W TDP
Memory		
4GB DDR3L-1600	997600	DDR3L-1600MHz 4GB Standard Temperature
8GB DDR3L-1600	997601	DDR3L-1600MHz 8GB Standard Temperature
4GB DDR3L-1600-EX	997602	DDR3L-1600MHz 4GB Extended Temperature
8GB DDR3L-1600-EX	997604	DDR3L-1600MHz 8GB Extended Temperature
Options and Accessories		
ADL-ET	290000	Extended Temp Screen (-40° to +85° C)
ADLE3800HD-CK	294880	Standard Cable Kit for ADLE3800HD
Thermal Solutions		
ADLE3800HD-SPREADER	294864	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

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