ADLE3800HDE – Intel E3800-Series (Embedded-Ready) 3.5" SBC

Features

- **Intel Atom E3800-3845 Quad, Intel Atom E3800-3827 Dual**

- **Up to 8GB DDR3L 1333MHz; 2x 204 SODIMM Sockets**

- **3x Gbit LAN; Intel i210**

- **4x USB2.0, 1x USB 3.0 via I-PEX conn**

- **I-PEX shared connector for 1x USB3.0, 1x DVI, 1x HDMI or 1x DP**

- **1x SATA (3Gbit/s)**

- **1x M.2 Key-B 2242 SATA; Up 64GB**

- **1x M.2 Key-B 2280 with 1x PCIex1**

- **12V Conn Available for up to 3 Fans**

- **-20C to +70C Standard, Optional -40C to +85C**

- **Voltage Input = 20V - 30V; Optional UPS (call for details)**

Ordering Information

Item Code	Part #	Description
ADLE3800HDE-E3845	294820	Intel E3845; QC, 1.91 GHz, 2MB, 10W TDP
ADLE3800HDE-E3827	294822	Intel E3827; DC, 1.75 GHz, 1MB, 8W TDP
Memory		
4GB DDR3L-1333/1600	997600	DDR3L-1333/1600MHz 4GB Standard Temperature
8GB DDR3L-1333/1600	997601	DDR3L-1333/1600MHz 8GB Standard Temperature
4GB DDR3L-1333/1600-EX	997602	DDR3L-1333/1600MHz 4GB Extended Temperature
8GB DDR3L-1333/1600-EX	997604	DDR3L-1333/1600MHz 8GB Extended Temperature
Options and Accessories		
	TBD	M.2 Key-B 2280 miniPCIe adapter
	TBD	UPS option (up to 100sec) -Call.
	TBD	M.2 Key-B 2242 SATA up to 64GB
Thermal Solutions		
ADLE3800HDE-SPREADER	294866	Chassis / Bulkhead mount heat spreader for ADLE3800HDE
ADL35-BBHS	294152	Large Heatsink for Bench Testing
ADL35-SOSET	294156	Benchtop Stand-Off Set for ADL35-BBHS, M3, 6mm, 37mm

Description

The ADLE3800HDE is based on Intel's first System-on-Chip (SoC) E3800-series Atom processors which use 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 distinguishing feature for the ADLE3800HDE is the pinned I/O with locking connectors which make this an ideal platform for high-IP (ingress protection), rugged military or industrial applications. It also features M.2 (Type B) 2242 SATA storage and M.2 (Type B) 2280 PCIex1 expansion. Its high-performance 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.

The ADLE3800HDE 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. Its superior graphics also make it ideal for rugged mobile computing in a variety of factory floor and rugged industrial environments in transportation, energy, oil and gas and similar industries.

Data subject to change without notice.