



APPLICATIONS

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

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 PCIe1
- 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)
- Microsoft Azure Certified for IoT

DESCRIPTION

The ADLE3800HDC is Microsoft Azure Certified thus making it ideal for cloud-based IoT solutions for any environment.

The ADLE3800HDC 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 ADLE3800HDC is a lower I/O, lower cost version of the ADLE3800HD offering M.2 (Type B) 2242 SATA storage and M.2 (Type B) 2280 PCIe1 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.

Display capabilities include: VGA/CRT = 2560x1600@60Hz 24bpp (via DVI conn), DVI/HDMI/DP (via I-PEX conn), DVI = 1920x1080@60Hz 24bpp, DirectX 11, Open GL 4.0, Full HD Video Playback and Dual-Display Support.

The ADLE3800HDC features a thermal junction temperature (Tj) of -40C to +85C and is ideal for a variety of intelligent controller or gateway applications in harsh extended temperature environments.

Contact [sales](#) for more information about this product or other products in ADL's line of [embedded SBCs](#) and [systems](#).

*Data subject to change without notice.



ORDERING INFORMATION

ITEM CODE	PART #	DESCRIPTION
3.5-inch Board		
ADLE3800HDC-E3845	294810	Intel E3845; QC, 1.91 GHz, 2MB, 10W TDP
ADLE3800HDC-E3827	294812	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 8GB Standard Temperature
8GB DDR3L-1333/1600-EX	997604	DDR3L-1333/1600MHz 8GB Standard Temperature
Options and Accessories		
M.2-mPCIe	ADL1001	M.2 Key-B 2280 miniPCIe Adapter
*Contact sales for more information	--	*M.2 Key-B 2242 SATA up to 128GB
Thermal Solutions		
ADLE3800HDC-SPREADER	294865	Chassis / Bulkhead mount heat spreader for ADLE3800HDC
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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ADL Corporate: 4411 Morena Blvd. Suite 101 | San Diego, CA 92117-4345

T: 855.727.4200
sales@adl-usa.com

F: 858.490.0599
www.adl-usa.com

ADL Germany: Eiserfelder Straße 316 | D-57080 Siegen, Germany

T: +49 (0) 271.250.810.0
sales@adl-europe.com

F: +49 (0) 271.250.810.20
www.adl-europe.com