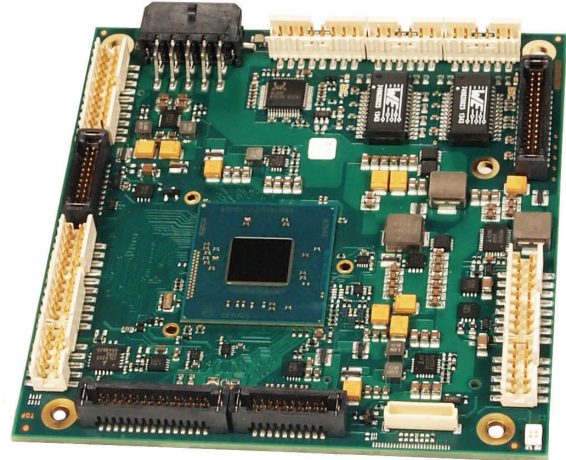




## ADLE3800PC Intel® E3800 Series SoC Processors Formerly Codenamed Bay Trail

### Features

- Intel® E3800 Series SoC Processors; DC/Quad
- Up to 8 GB DDR3L-1333; 1.35V SoDIMM204 Socket
- Type 2 Downward-Stacking PCIe/104 V2.01 with 2x Gen2 PCIe x1 Lanes; LPC, SMBus, 2x USB 2.0
- 2x SATA 3 Gb/s; Shared with mSATA Socket
- 2x 10/100/1000 Mbit Ethernet LAN Port; Intel i210
- 2x RS232 COM Ports
- 8x USB 2.0 Total: 4x USB 2.0 Pin Connector, 2x PCIe Connector, 1x Mini PCIe Socket, 1x USB 3.0 (Backward Compatible to USB 2.0)
- 1x USB 3.0
- Onboard VGA/DVI, DisplayPort/HDMI
- Discrete 16bit GPIO Port; PCA9535BS, No Interrupt
- 7.1 HD Audio with SPDIF In/Out
- PCI Express Mini Card 1.2 Socket; Compatible with Mini PCIe or mSATA Modules
- 90 mm x 96 mm, PCIe/104 Form Factor
- Input Power = 5VDC, 5VS (12VDC for PCIe/104 Connector)



### Description

The ADLE3800PC 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 including 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 ADLE3800PC is ideal for rugged, extended temperature intelligent systems with stringent size, weight, and power (SWAP) requirements. It has a wide thermal junction temperature (Tj) ranging standard from -25C to +75C and extended from -40C to +85C. Its graphics engine is capable of decoding 10 or more streams of 1080p video, has integrated hardware acceleration for video decode of H.264, MVC, VP8, VC1/WMV9 and others standards. It also supports DirectX 11, Open GL 4.0, full HD video playback, dual display support and a maximum resolution of 2560 x 1600 @ 60Hz.

It's particularly suited for extreme environments such as industrial control and automation, in-vehicle communication and infotainment systems for commercial transportation fleets. It's superior graphics and low power also make it ideal for rugged mobile computing, portable medical devices, and mobile autonomous systems for civil, commercial and defense applications.

**Data subject to change without notice.**

### Ordering Information

Item Code	Part #	Description
<b>PCIe/104 Board</b>		
ADLE3800PC-E3845	292800	Intel E3845; QC, 1.91 GHz, 2MB
ADLE3800PC-E3827	292802	Intel E3827; DC, 1.75 GHz, 1MB
<b>Memory</b>		
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
<b>Ruggedization Options</b>		
ADL-ET	290000	Extended Temperature Screening (-40C to +85C
UNDERFILL	807707	BGA underfill req'd for -40C operation.
COATING	807706	Conformal Coating
UNDERFILL/BONDING/COATING	807709	Underfilling, Bonding, and Conformal Coating
<b>Thermal Solutions</b>		
ADLE3800PC-SP0600	292806	0.600" Heat Spreader
ADLE3800PC-SP1000	292808	1.000" Heat Spreader
ADLE3800PC-LP	292810	Low Profile Passive Heatsink