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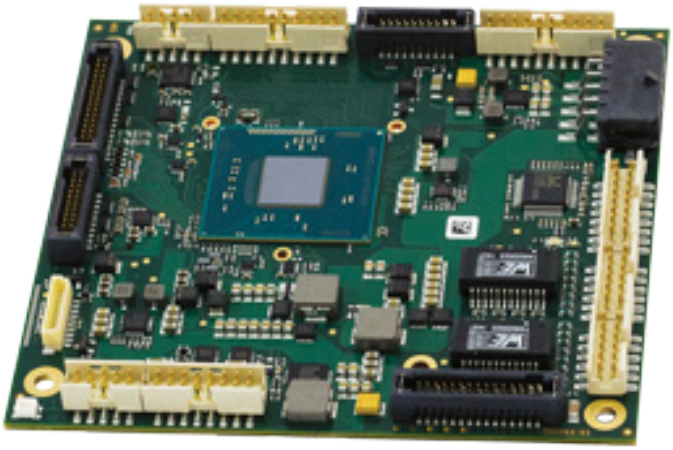
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Find the *Advantech / Embedded Solutions ADLE3800PC-E3827* at our website: *Click HERE*

Embedded Solutions
SMARTER BY DESIGN®

# ADLE3800PC PCIe/104 SBC

## Intel® E3800 Series SoC Processors



RoHS compliant

Microsoft Azure Certified

## APPLICATIONS

- Factory automation
- Unmanned systems
- Drone payload computing
- Traffic technology
- Rugged surveillance cameras
- Cloud-based IoT solutions

## FEATURES

- Intel® E3800 Series SoC Processors; DC/Quad
- Up to 8 GB DDR3L-1333; 1.35V SoDIMM204 Socket
- CPU TDP 8W to 10W
- 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
- Windows 7, Windows 8, Windows 10, Linux Compatible
- 90 mm x 96 mm, PCIe/104 Form Factor
- Input Power = 5VDC, 5VS (12VDC for PCIe/104 Connector)

## DESCRIPTION

**The ADLE3800PC is Microsoft Azure Certified thus making it ideal for cloud-based IoT solutions for any environment.**

The ADLE3800PC is based on Intel's first System-on-Chip (SoC) E3800 Atom product family which uses 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 from -40C to +85C. Its graphics engine is capable of decoding 10 or more streams of 1080p video, has integrated hardware acceleration for video de-code of H.264, MVC, VPG8, 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.

The PCIe/104 expansion bus offers added Type 2 functionality including SMBus, USB2.0, and up to 2x PCIe X1 lanes for additional I/O features.

| FEATURE | TYPE 2 |
|---|---|
| PCIe x1 | 2/1* |
| PCIe x4 | 0 |
| PCIe x16 | 0 |
| USB 3.0 | 0 |
| USB 2.0 | 2 |
| SMB | 1 |
| LPC | 1 |
| RTC Battery | 1 |

**NEW! 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.

**ADL Corporate:** 4411 Morena Blvd. Suite 101 | San Diego, CA 92117-4345

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sales@adl-usa.com www.adl-usa.com

## ORDERING INFORMATION

| ITEM CODE | PART # | DESCRIPTION |
|---|---|---|
| **PCIe/104 Board** | | |
| ADLE3800PC-E3845 | 292800 | Intel E3845; QC, 1.91 GHz, 2MB, 10W TDP |
| ADLE3800PC-E3827 | 292802 | 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) |
| UNDERFILL | 807707 | BGA underfill req'd for –40C operation |
| COATING | 807706 | Conformal Coating |
| UNDERFILL / BONDING / COATING | 807709 | Underfilling, Bonding, and Conformal Coating |
| | | |
| **Thermal Solutions** | | |
| ADLE3800PC-SP0600 | 292806 | 0.600" Heat Spreader |
| ADLE3800PC-SP1000 | 292808 | 1.000" Heat Spreader |
| ADLE3800PC-LP | 292810 | Low Profile Passive Heatsink |
| ADLE3800PC-FANSINK | 292812 | 2" x 2" Fansink |

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