Embedded Solutions
SMARTER BY DESIGN™

ADLE3800SEC Embedded SBC

Edge-Connect Architecture



APPLICATIONS

- UAV and UUV Unmanned Systems
- Industrial Control Systems
- Government & Defense
- Video Surveillance
- Small Scale Robotics
- Remote Datalogging
- Man-Wearable Computing

FEATURES

- Small Size (75mm x 75mm)
- 4GB soldered DRAM (DDR3-1333 MHz)
- Low power Atom® processor (8W TDP)
- Quad-Core / Dual Core Versions Available
- M.2 Storage Socket Onboard
- Expansion Connector
- Extended Temperature Available
- Windows 7, 8, 10 & Linux compatible
- Supports up to 2 additional PCIe devices (requires expansion card)

DESCRIPTION

Measuring just 75mm x 75mm, the ADLE3800SEC is an embedded SBC specially optimized for Size, Weight, and Power (SWAP) applications. Based on the E3800 series Intel Atom™ SoC, this tiny board delivers maximum performance in the smallest possible size. It features a quad-core processor with up to 2MB onboard cache, and an integrated Intel HD Graphics engine with support for DirectX 11, Open GL 4.0, and full HD video playback. Connecting to sensors, cameras and storage is easy with a full range of onboard I/O: 2x Gigabit LAN, 1x USB 3.0, 1x USB 2.0, 2x PCIe, and SATA. The Intel HD Graphics engine supports video output in either HDMI or Display Port format. An onboard M.2 socket allows users to install the fastest Solid State storage solutions on the market. Extended Temperature Ratings and hard-mounted Edge-Connect design make the ADLE3800SEC ideal for rugged embedded applications. For further information, please contact our sales engineering team: sales@adl-usa.com.

TECHNICAL SPECIFICATIONS

FEATURES	FUNCTIONS
Input Voltage	20 - 30VDC
Processors Available	E3845 - quad core Atom, 1.91GHz, 2MB cache E3827 - dual core Atom, 1.75GHz, 1MB cache
Memory	Up to 4GB DDR3-1333MHz (soldered onboard)
Graphics	HDMI (1920x1200) or Display Port (2560x1600)
Storage	1x M.2 Socket (Key B, 2242); 1x SATA 2.0 (6GB/s)
I/O (Front Connectors) I/O (Backplane)	2x GBLAN, 2x USB, 1x Display Port, 2xPCIe, 2x USB, 1x SATA, SM-Bus, 1x Display Port

ORDERING INFORMATION

ITEM CODE	PART #	DESCRIPTION
ADLE3800SEC-E3845	295800	E3845 Atom Processor; Quad Core, 1.91GHz, 2MB Cache, 10W TDP
ADLE3800SEC-E3827	295802	E3827 Atom Processor; Dual Core, 1.75 GHz, 1MB Cache, 8W TDP

OPTIONS	PART #	DESCRIPTION
ADL-ET	290000	Ext Temp Screen (–40°C to +85°C)
ADLE3800SEC-SPDR	TBD	Low-Profile Heat Spreader
Coating & Underfill	807709	Conformal Coating of CPU board & Underfill of BGA components

*Data subject to change without notice.

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