



APPLICATIONS

- Industrial IoT (IIoT) Network and Cloud Computing
- Cyber Security Edge Devices for ICS and SCADA threat security.
- Secure Networking (Secure Routing, Traffic Monitoring and Gateways)
- Intelligent Machinery and Equipment Controllers
- Unmanned or Autonomous Vehicle Mission/Payload Computing
- Traffic Engineering
- Transportation Mobile Computing
- Wind Turbine Datalogging and Collision Avoidance
- Oil and Gas IPC

DESCRIPTION

The ADLEPC-1520 is a rugged, compact industrial-grade chassis constructed from 6063 aluminum, with thick-walled design and a fanless, conduction-cooled CPU for wider temperature operation. It features a durable anodized finish, flush-mounted screws, and flexible mounting options. At only 2.3" x 3.4" x 3.7", it is ideal for a variety of industrial applications and environments...whether on the factory floor or deployed in the external environments.

TECHNICAL SPECIFICATIONS

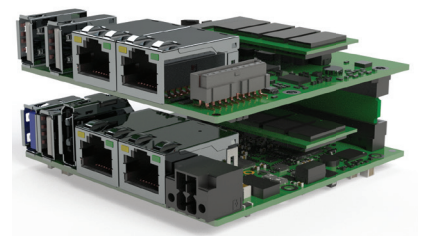
FEATURES	FUNCTIONS
Processors (SoC)	Intel Atom E3845 QC, 1.91GHz, 2MB, 10W TDP Intel Atom E3827 DC, 1.75 GHz, 1MB, 8W TDP
TPM 2.0	Via Intel Chipset PTT and BIOS
Memory	Up to 4GB Soldered Down
Storage	2x M.2 Key B 2242 SATA II SSD
Input/Output	1x DisplayPort, 1x USB 2.0, 1x USB 3.0, 2x 10/100/1000 LAN
Power	Vin = 20-30Vdc; Options for 12-24Vdc and 24-36Vdc. Custom power options available via custom expansion board.
Operating Temperature	Standard Temperature = -40C to 70C Note: Max temperature 75C with conduction cooling.
Operating System	Windows and Linux including Ubuntu 16.04 and RHEL.
Dimensions/Weight	Dimensions = 2.3" x 3.4" x 3.7" Weight <= 1.5lb
I/O Expansion	Available via standard and custom mezzanine board options. See ordering table or contact sales.

Modular I/O Expansion

The heart of the ADLEPC-1520 is a compact (75mm x 75mm) Intel E3800-series Atom CPU (ADL75S-E38XX) with a stackable expansion connector. This results in a very small 3.4" x 3.7" overall footprint for the ADLEPC-1520, while providing application-specific features. The expansion connector features a number of interfaces including 2xPCIe, 2x USB, 1x SATA, SM-Bus, and 1x DisplayPort with standard expansion boards available.

Custom I/O and Power

ADL Embedded Solutions, Inc. also offers custom board development services to support customer-specific application I/O and power requirements. This makes possible standardizing the CPU module across products with varying I/O features while maintaining a fixed hardware, BIOS, and firmware configuration thereby easing the burden of software and driver maintenance. Contact your sales engineer for details.



*Data subject to change without notice.



ORDERING INFORMATION

ITEM CODE	PART #	DESCRIPTION
ADLEPC-1520 CPU Options		
E3845/4GB/EXT	ADLEPC-1522-QC-EXT	Intel E3845 Atom; Quad Core, 1.91GHz, 2MB, 4GB Soldered Down DDR3; Ext Temp
E3827/4GB/EXT	ADLEPC-1522-DC-EXT	Intel E3827 Atom; Dual Core, 1.75 GHz, 1MB, 4GB Soldered Down DDR3; Ext Temp
E3845/2GB/EXT	ADLEPC-1524-QC-EXT	Intel E3845 Atom; Quad Core, 1.91GHz, 2MB, 2GB Soldered Down DDR3; Ext Temp
E3827/2GB/EXT	ADLEPC-1524-DC-EXT	Intel E3827 Atom; Dual Core, 1.75 GHz, 1MB, 2GB Soldered Down DDR3; Ext Temp
Options		
ADLEPC-1520-CUSTOM	CALL	Customer-specific I/O Board Development Services. Call for consultation.
ADLEPC-PWR	ADLEPC-1600-DC-PWR	AC/DC 24V Adapter with wall plug
M.2 2242 64GB SSD	205-1064	205-1064 = 64GB MLC Extend Temperature; Call for Other MLC and SLC options.
ADLEPC-DIN	ADLEPC-1500-DIN	DIN Mounting Kit
ADL-ET	290000	Ext Temp Screening Test Sheet (-40°C to +85°C)
ADL-CC	807706	Conformal Coating For High Humidity
ADLEPC-VINMOD	401700	401700 = Modified for 20-36V Operation
	401750	401750 = Modified for 12-30V Operation
M.2-CC	807720	Conformal Coating for M.2 module or other added modules.
ADL-CU	807708	CPU Conformal Coating and Underfill of BGA.