



Compact HWD = 2.1" x 4.6" x 3.3"

DESCRIPTION

The **ADLEPC-1700** is a rugged, compact industrial-grade computer constructed from 6063 aluminum, with thick-walled design and a fanless, conduction-cooled CPU for industrial temperature operation. It features a durable anodized finish, flush-mounted screws, and flexible mounting options. The compact size and light weight make it ideal for a variety of industrial applications and environments...whether on the factory floor or in rugged external conditions.

Customizable High Performance

At the heart of the ADLEPC-1700 is a compact Intel® Atom™ E3900-series SBC with a host of onboard and mPCIe expansion features. The compact chassis design has a very small footprint at only a 3.3" x 4.6"...the approximate size of an index card... making it ideal for embedded use in IIOT applications or retrofitting into high-value assets and infrastructure such as edge devices for power grid protection, oil and gas, unmanned applications, and more.

Custom I/O and Power

The EPC-1700 is highly customizable and can easily be adapted for particular customer needs including Wi-Fi, CAN, RS232, military-grade power, MIL-STD-1553, ARINC, and much more.

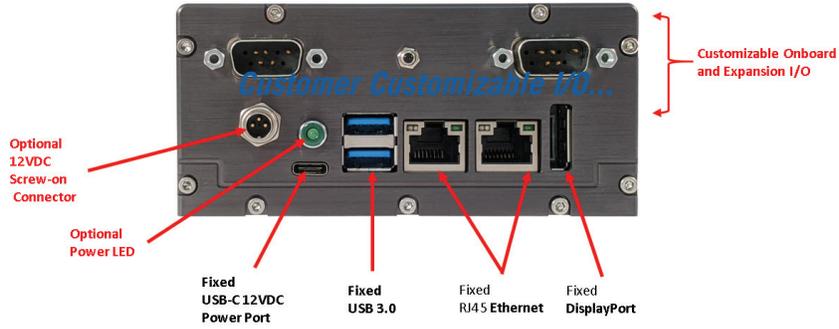
ADL Embedded Solutions, Inc. offers full turnkey system design services and is well versed at working collaboratively with customers to conceptualize and manufacture full custom EPC-1700 solutions or even full-custom system solutions. Contact your ADL sales engineer for details.

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
- Wind Turbine Datalogging and Collision Avoidance
- Oil and Gas IPC Controller

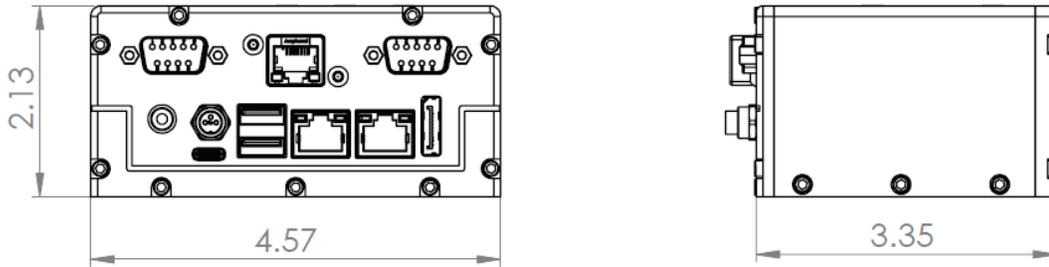
TECHNICAL SPECIFICATIONS

FEATURES	FUNCTIONS
Intel® Atom Processors (Formerly codenamed Apollo Lake)	<ul style="list-style-type: none"> • Intel® Atom™ x7-E3950 Quad, 1.60 GHz, 2MB cache, 12W TDP; Passmark Performance ~ 2150 • Intel® Atom™ x5-E3940 Quad, 1.60 GHz, 2MB cache, 9.5W TDP; Passmark Performance ~ 1950 • Intel® Atom™ x5-E3930 Dual, 1.30 GHz, 2MB cache, 6.5W TDP; Passmark Performance ~ 1100
Security	TPM 2.0
Memory	Up to 8GB Soldered-Down LPDDR4 at 2400 MT/s.
Storage	<ul style="list-style-type: none"> • 1x SATA III Port for SATADOM capacity up to 128GB • 1x mSATA SATA III Socket with capacity up to 512GB
Fixed Front-Side I/O and Features	<ul style="list-style-type: none"> • 1x DisplayPort; DP 1.2; 4096 x 2160 @60 Hz • 2x USB 3.0 • 2x i210/i211 Ethernet • USB-C Power Ports
Onboard I/O and Features	<ul style="list-style-type: none"> • 1x 802.11ac • 2x BIOS-Selectable RS232/422/485; Linux-Only • 2x USB 2.0 • HD Audio • 4bit 3.3V GPIO
Expansion	1x Shared mPCIe/mSATA Socket for Optional CAN, 802.11xx, 3G/4G Modem, 4x RS232/422/485, DIO, MIL-STD-1553, ARINC, and other mPCIe modules.
Operating Temperature	<ul style="list-style-type: none"> • Standard Temperature = -40C to 70C • Note: Max temperature 75C with conduction cooling.
Mechanical Specifications	<ul style="list-style-type: none"> • HWD = 2.1" x 4.6" x 3.3" (54mm x 116mm x 85mm) • Nominal Weight ~ 1.3lb • Mounting: DIN Rail, VESA 50mmx50mm

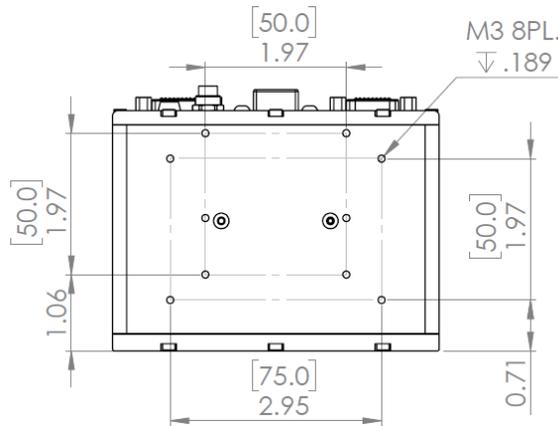


ADLEPC-1700 I/O Ports and Features

(Pre-Configured ADLEPC-1702/1704/1706 shown)



ADLEPC-1700 Dimensions



Mounting: Din Rail, 50mm x 75mm M3



ORDERING INFORMATION

ITEM CODE	PART #	DESCRIPTION
ADLEPC-1700 Variants		
ADLEPC-1702	ADLEPC-1702	Intel® Atom™ x5-E3930 Dual, 1.30 GHz, 2MB cache, 4 GB DRAM, 6.5W TDP; I/O Ports: <ul style="list-style-type: none"> • 2x Ethernet; 2x USB3.0, 1x DP • Power LED + Power Reset Button • Screw-type circular power connector + USB-C power port • 2x RS232/422/485 (Linux-only drivers)
ADLEPC-1704	ADLEPC-1704	Intel® Atom™ x5-E3940 Quad, 1.60 GHz, 2MB cache, 4GB DRAM, 9.5W TDP; I/O Ports: <ul style="list-style-type: none"> • 2x Ethernet; 2x USB3.0, 1x DP • Power LED + Power Reset Button • Screw-type circular power connector + USB-C power port • 2x RS232/422/485 (Linux-only drivers)
ADLEPC-1706	ADLEPC-1706	Intel® Atom™ x7-E3950 Quad, 1.60 GHz, 2MB cache, 8GB DRAM, 12W TDP; I/O Ports: <ul style="list-style-type: none"> • 2x Ethernet; 2x USB3.0, 1x DP • Power LED + Power Reset Button • Screw-type circular power connector + USB-C power port • 2x RS232/422/485 (Linux-only drivers)
ADLEPC-1700 Custom Configurations	CALL	Call your sales engineer for custom configurations featuring optional onboard and mPCIe expansion I/O.
Options		
SATADOM 64GB	206-1064	64GB MLC SATAIII SATADOM; Ext. Temp.
SATADOM 128GB	206-1128	128GB MLC SATAIII SAADOM; Ext. Temp.
mSATA storage up to 512GB	CALL	SATAIII mSATA modules up to 512GB; uses mPCIe/mSATA socket.
ADLEPC-1700-PWRFL	100-9843	External power via industrial circular connector with 18" flying leads
ADLEPC-1700-PWR	ADLEPC-1700-PWR	60W USB-C Wall Adapter
mPCIe WiFi	232924	Optional 802.11ac WiFi with 2ea SMA antenna ports
EPC1700-Ant	232926	2ea Direct-attached WiFi antennas.
mPCIe 4x COM	299855	Optional mPCIe RS232/422/485 up to 4 ports; Windows and Linux drivers
mPCIe Peak CAN	299857	Optional Peak Dual CAN 2.0A, 2.0B
mPCIe i210 ENET	299862	Optional Intel i210 Ethernet LAN port
EPC1700-PSU	293049	Wide-Input 9VDC to 36VDC discrete power supply via circular connector
EPC1700-GPIO	100-9762	Optional DB9 8bit GPIO
DIN Rail Set	ADLEPC-1600-DIN	1 set of ADLEPC1700/1600 DIN Rails
EPC1700-BAT	TBD	EPC1700 RTC Battery

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