



(Shown with custom I/O expansion)

DESCRIPTION

The **ADLEPC-1760** 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-1760 is a compact Intel® Atom® x7000RE Series industrial SBC with a host of onboard and M.2 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-1760 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-1760 solutions or even full-custom system solutions. Contact your ADL sales engineer for details.

APPLICATIONS

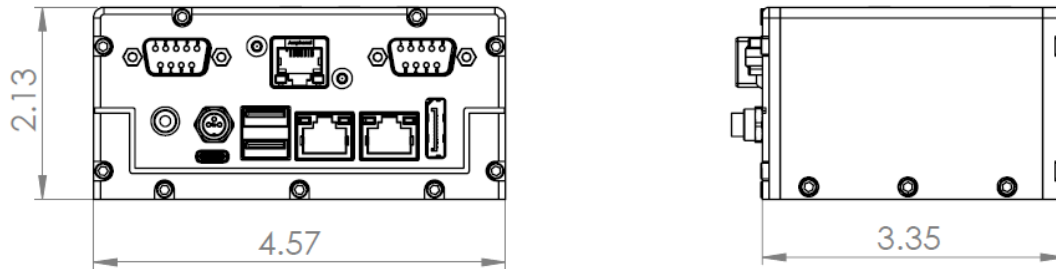
- Industrial IoT (IIoT) Network and Cloud Computing
- Cyber Security Edge Devices for ICS and SCADA threat security.
- Secure Networking (Secure Routing, Traffic Monitoring and Gateways)
- Intelligent Machinery and Equipment Controllers
- Unmanned or Autonomous Vehicle Mission/Payload Computing
- Traffic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

TECHNICAL SPECIFICATIONS

FEATURES	FUNCTIONS
Intel® Atom Processors	Intel® Atom® x7835RE 8C, 3.6 GHz, 6MB, 12W TDP
Security	Optional TPM 2.0
Memory	• Dual Channel DDR5 4800 MHz • 1 x 262-pin SO-DIMM
Storage	• SATA Port • 1 x M.2 2280 B/M Key (PCIe x2) • 1 x M.2 2230 E Key (PCIe x1)
Fixed Front-Side I/O and Features	• 1x HDMI Port 2.0 • 2 x USB 3.0 Type A port • 2 x 2.5GbE LAN
Onboard I/O and Features	• 1x RS232/422/485 • 4x USB 2.0 • GPIO: 4-pin input, 4-pin output • 1x I2C • 1x 5V SATA Power • 1x Battery Connector (CR2032)
Expansion	• 1 x M.2 B key 3052 / 2280 (include 1x PCIe x2 / USB3.0) • 1 x M.2 E Key 2230 (include 1x PCIe x1 / USB2.0)
Operating Temperature	• Standard Temperature = -40C to 70C • Note: Max temperature 75C with conduction cooling.
Power	Vin = 12~24 VDC
Certification	CE/FCC Class A
Mechanical Specifications	• HWD = 2.1" x 4.6" x 3.3" (54mm x 116mm x 85mm) • Nominal Weight ~ 1.3lb • Mounting: DIN Rail, VESA 50mmx50mm

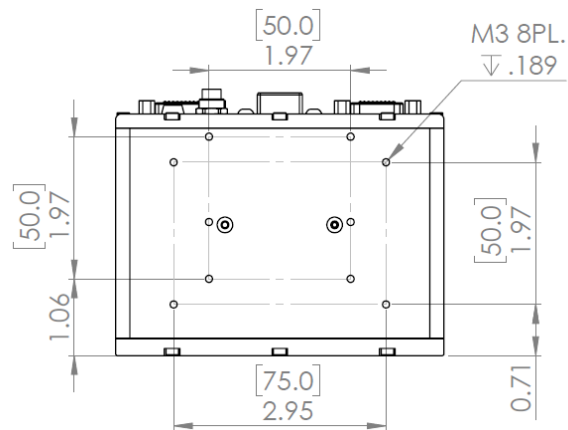
ADLEPC-1760 I/O Dimensions

(Shown with custom I/O options)



ADLEPC-1760 Mounting Holes

(Options: DIN Rail, 50mm x 75mm M3)



ORDERING INFORMATION

ITEM CODE	PART #	DESCRIPTION
ADLEPC-1760-8C		Intel® Atom® x7835RE Octa-Core, 3.6 GHz, 6MB Cache, 12W TDP
ADLEPC-1750 Custom Configurations	CALL	Call your sales engineer for custom configurations featuring optional onboard and M.2 expansion I/O.
Options		
Storage NVMe	TBD	Up to 2TB, NVMe M.2 KeyM PCIe x2
ADLEPC-1700-PWRFL	TBD	External power cable with circular connector with 18" flying leads
M.2 WiFi-6	CALL	WiFi-6 802.11ax/ac/a/b/g/n Industrial
EPC1700-Ant	TBD	2ea Direct-attached WiFi antennas.
EPC1700-PSU	TBD	Wide-Input 12VDC to 24VDC discrete power supply via circular connector
EPC1700-GPIO	TBD	Optional DB9 8bit GPIO
DIN Rail Set	ADLEPC-1600-DIN	1 set DIN Rails
EPC1750-BAT		EPC1700 RTC Battery