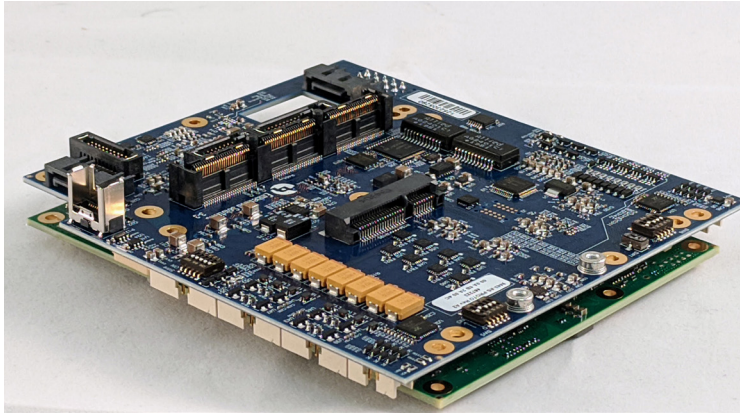




APPLICATIONS

- Fanless IP65/67 rugged systems.
- Military ground vehicle mission computers
- Rugged high-performance industrial systems.
- Security and Surveillance
- Tactical command and control mission computers
- Transportation and railway
- Unmanned autonomous

OVERVIEW

The ADLQ570CE features 11th generation Intel® Core™ processors and is designed to be backward compatible with legacy ADLQ170CE and ADL PCIe/104 Intel® Core™ SBCs with respect to cabling, power supplies and compatible COTS enclosures like the ADLMES9200.

The ADLQ570CE is designed for rugged use and wide temperature operation with optional conformal coatings, underfill and bonding adhesives.

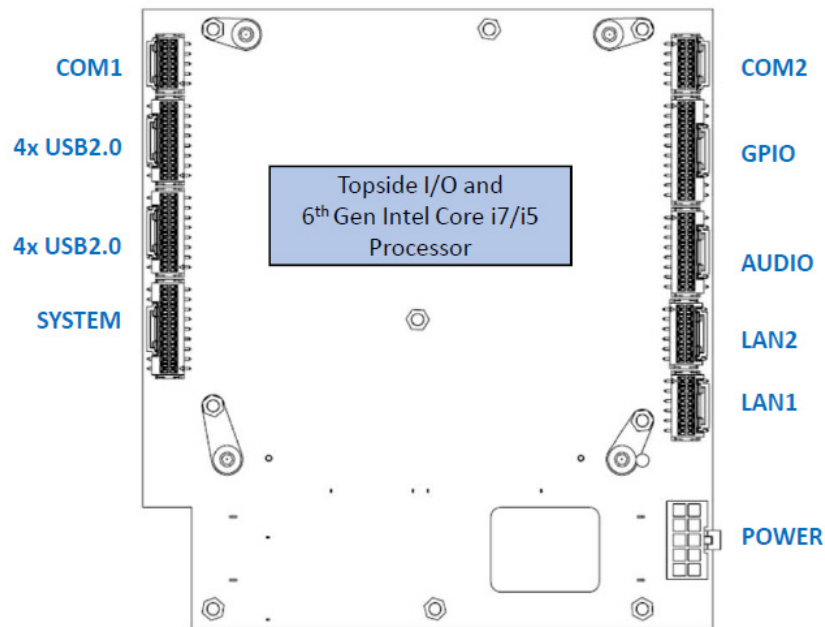
ADL specializes in rugged embedded system design. Our engineers are well-versed at creating custom embedded solutions from board level or PCIe/104 stack to full turnkey rugged systems for a wide variety of rugged military and industrial applications.

TECHNICAL SPECIFICATIONS

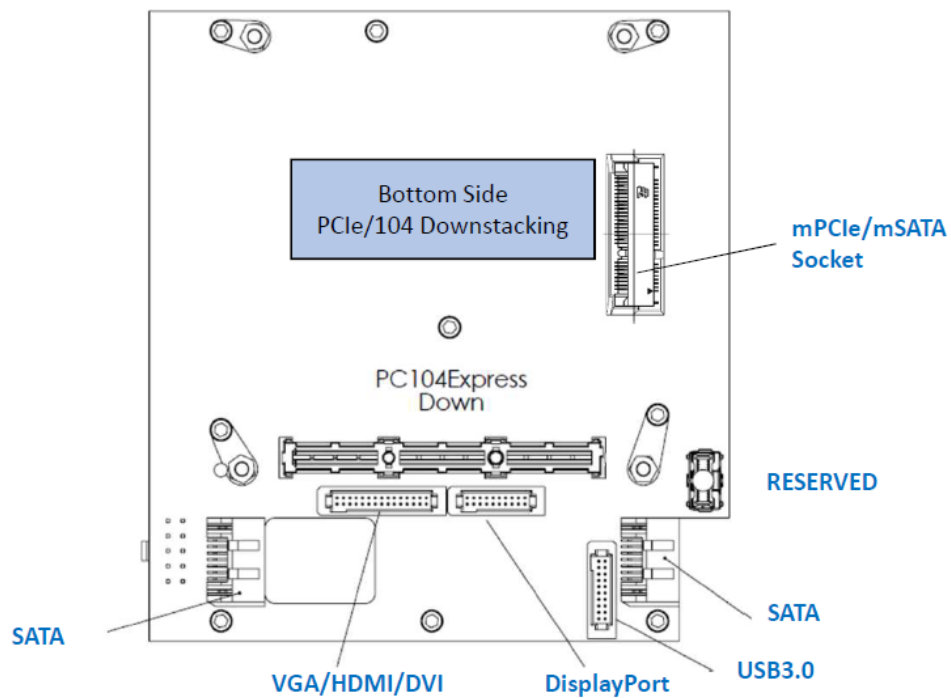
FEATURES	DESCRIPTION
11th Generation Intel® Core™ Processors Formerly codenamed Tiger Lake	Intel® Xeon® W-11865MRE: Octa (8), 2.6/4.7 GHz, 24 MB, 45W/35W TDP, Intel® UHD 32 Graphics Intel® Xeon® W-11555MRE: Hexa (6), 2.6/4.5 GHz, 12 MB, 45W/35W TDP, Intel® UHD 32 Graphics Intel® Xeon® W-11155MRE: Octa (4), 2.4/4.4 GHz, 8 MB, 45W/35W TDP, Intel® UHD 16 Graphics
DRAM	3 Sockets, up to 32GB DDR4 each for total of up to 96GB DDR4, 3200 MT/s memory.
Ethernet	1x Intel® i226 GbE LAN Controller 1x Intel® i210 GbE LAN Controller
Audio	Digital High Definition Audio Interface with support for multiple audio codecs
Board Controller	Non-volatile User Data Storage, Board Information and Statistics, BIOS Setup Data Backup
Watchdog	Multi Stage Watchdog via BIOS
Security	TPM 2.0, SPI Infineon SLB9670 (requires RTC battery)

FEATURES	DESCRIPTION
PCIe/104 Expansion	PCIe/104 downstacking interface: 4x Gen3 PCIeX1, 1x Gen4 PCIeX16 with 2x PCIeX8 Bifurcation option.
Watchdog	Multi Stage Watchdog via BIOS
Expansion	1x minicard socket for mPCIe or mSATA modules.
USB	8x USB 2.0 pinned; 1x USB 3.0
SATA	2x SATA III @ 6 Gb/s
Display	1x VGA/DVI/HDMI 1x DisplayPort
Serial COM	2x RS232/422/485 COM ports pinned
Other I/O	System Connector 16bit GPIO
Power	ATX-Compliant; ACPI 4.0 with battery support
Dimensions	125 mm x 115.6 mm
Temperature Range	0C to 70C Standard. Optional screening for -40C to 85C.

*Data subject to change without notice.



Dimensions = 115.6mm x 125mm





ORDERING INFORMATION

ITEM CODE	PART #	DESCRIPTION
CPU Assembly		
ADLQ570CE/W-11865MRE	297252	Intel® Xeon® W-11865MRE, 8C/16T, 2.6GHz / 4.7GHz, 45W/35W TDP, Passmark 15958
ADLQ570CE/W-11555MRE	297254	Intel® Xeon® W-11555MRE, 6C/12T, 2.6GHz / 4.5GHz, 45W/35W TDP, Passmark 12591
ADLQ570CE/W-11155MRE	297256	Intel® Xeon® W-11155MRE, 4C/8T, 2.4GHz / 4.4GHz, 45W/35W TDP, Passmark 8502
Memory		
16GB DDR4	997616	DDR4-DRAM 16GB, 3200MHz, Ext Temp
32GB DDR4	997618	DDR4-DRAM 32GB, 3200MHz-EX, Ext Temp
Options and Accessories		
ADL-ET	290000	Extended Temp Screen (-40° to +85° C)
UNDERFILL	807707	BGA underfill req'd for <1nm BGA solderballs w/ Ext Temp
COATING	807706	Conformal Coating
UNDERFILL / BONDING	807709	Underfilling, Bonding, and Conformal Coating
ADLQ170CE Cable Kit	292770	ADLQ170CE/ADLQM87PC Cable Kit
ADLQ570CE-Spreader	294873	Copper-Enhanced Heat Spreader

*Data subject to change without notice.