

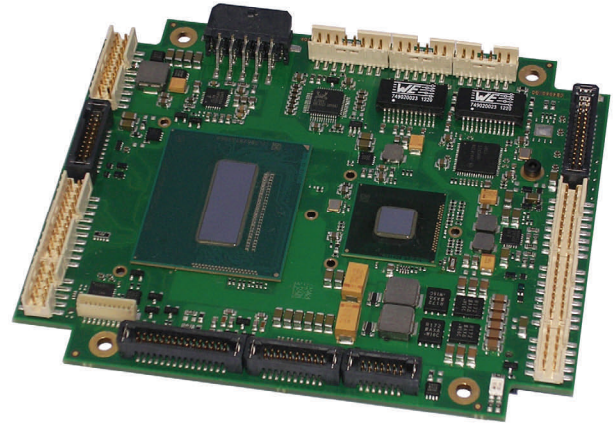


ADLQM87PC

4th Gen Intel® Core™ Processors w/ Intel 8-Series Chipset

Features

- 4th Gen Intel® Core™ Dual and Quad Core; BGA1364
- Intel® 8-Series PCH Lynx Point QM87 Chipset
- CPU TDP 25W to 47W
- Up to 8 GB DDR3L-1333/1600; 1.35V SoDIMM204 Socket
- Type 1 Bottom-Stacking PCIe/104 V2.01 with Gen2 PCIe x1 Lanes and Gen3 PEG x16
- 4x SATA 6 Gb/s with RAID 0/1/5/10, Backward Compatible
- 2x 10/100/1000 Mbit Ethernet LAN Port
- 2x RS232 COM Ports
- 13x USB 2.0 Total: 8x Onboard, 2x PCIe Connector, 1x Mini PCIe Socket, 2x USB 3.0
- 2x USB 3.0, Backward USB 2.0 Compatible
- Onboard VGA/DisplayPort, LVDS, HDMI / DVI, eDP
- Three Independent Displays
- Discrete 16bit GPIO Port
- 7.1 HD Audio with SPDIF In/Out
- Trusted Platform Module; TPM V1.2 (ATMEL® AT97SC3205)
- PCI Express Mini Card 1.2 Socket: Compatible with Mini PCIe or mSATA modules
- 4.5" x 3.8" (115mm x 96mm) PCI/104-Express v1.0a Form Factor
- Input Power = 5VDC, 5VS, 12VDC



Ordering Information

Item Code	Part #	Description
PCIe/104 Board		
ADLQM87PC-XXXXX		4th Gen Intel Core Dual/Quad Processors
Memory		
4GB DDR3L-1333/1600		DDR3L-1333/1600 MHz 4GB Standard Temperature
4GB DDR3L-1333/1600 EX		DDR3L-1333/1600 MHz 4GB Extended Temperature
8GB DDR3L-1333/1600		DDR3L-1333/1600 MHz 8GB Standard Temperature
8GB DDR3L-1333/1600 EX		DDR3L-1333/1600 MHz 8GB Extended Temperature
Options		
ADL-ET	290000	Extended Temperature Screening (-40C to +85C)
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
Thermal Solutions		
ADLQM87PC-SP0600		0.600" Cu-Enhanced Heat Spreader
ADLQM87PC-SP1000		1.000" Cu-Enhanced Heat Spreader
Precision Stand-Offs 293406 or 293436 are recommended for use with the above thermal solutions		
ADLQM87PC-FANSINK		Cu-Enhanced Heatsink with Dual-Fan combo

Description

The ADLQM87PC delivers the industry's highest GIPS per in² and the most densely-packed comprehensive set of features. The ADLQM87PC's 17 in² footprint features 4th generation Intel Core processors with Intel 8-series QM87 PCH chipset, on-board Mini PCIe/mSATA socket for on-board WiFi, GPS, bootable flash storage, a Trusted Platform Module (TPM v1.2), 2xUSB 3.0, up to 8GB 1.35V DDR3L, 4x SATA 6 Gb/s, 2x GLAN, DisplayPort, HDMI/DVI, VGA, 8x USB 2.0, etc...all with a smaller footprint and height than a basic COM-Express module with greater temperature range and ruggedness.

The ADLQM87PC features a vastly improved HD4600 graphics engine with 2x the performance of the previous 2nd generation Intel Core graphics. It is ideal for space-constrained, rugged, or extended temperature applications where multi-core processor performance is critical. It brings unparalleled performance to countless applications such as radar and sonar processing, image signal processing, tactical command and control, surveillance and reconnaissance, transportation and railway.

ADLQM87PC support includes 3D CAD modeling support and full system design services which include custom chassis design and system integration services.

Please contact your sales representative for more information.

Data subject to change without notice.