

ECM-ADLN-N97

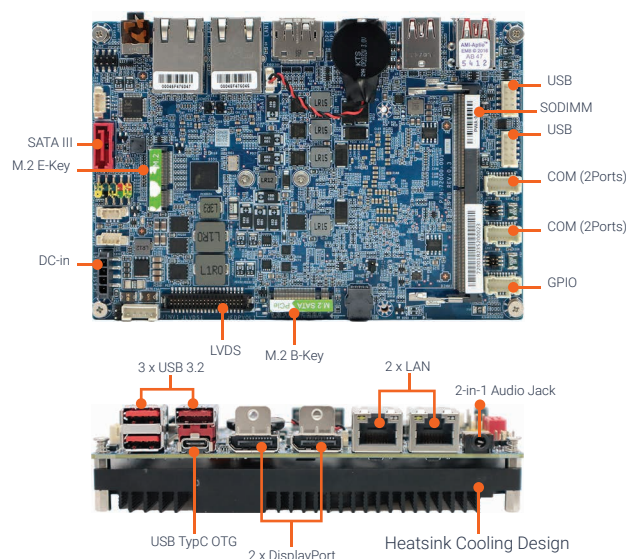
3.5" SBC, 12th Gen Intel® Processor N97, Quad-core, Fanless Operation, Low-profile Design

Features

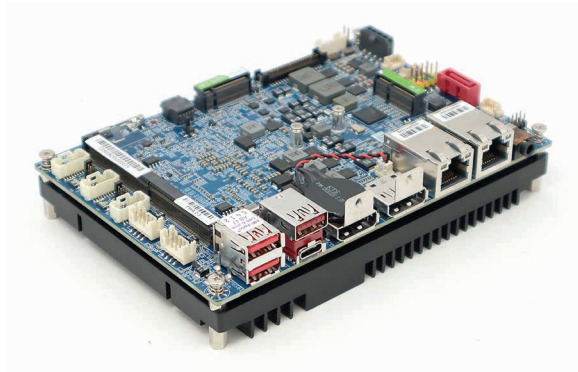
- Intel® Processor N97 onboard, up to 3.60 GHz, up to 12W TDP
- Intel® Alder Lake-N Platform
- 1 x SODIMM socket support DDR5 4800 MT/s up to 16GB
- 32GB eMMC Onboard
- Supports 3 Independent Displays: 2 x DisplayPort 1.4b 4K@60Hz, LVDS/eDP
- USB Typc-C OTG
- 3 x USB 3.2 Gen2 Type-A (Red), 4 x USB 2.0, 2 x COM, 1 x SATAIII
- 2 x Intel® Ethernet Controller I226-V (2.5GbE)
- M.2 B-Key 2242/3042 with Nano SIM Card Socket
- 12V-24V Wide Range DC-In
- Fanless Operation - 12W CPU (Heatsink)
- Optional: Heat Spreader Cooling Design

Specifications

System	
CPU	Intel® Alder Lake-N Platform Intel® Processor N97, 6M Cache, up to 3.60 GHz, up to 12W TDP. Optional SKU for using Intel® Atom® or Pentium® 15W Processor, please contact BCMSSales@bcmcom.com
System Memory	1 x SODIMM socket support DDR5 4800 MT/s up to 16GB
BIOS	256Mb SPI BIOS
Expansion Slots & Storage	1 x M.2 E-Key 2230, CNVi Support (PCIe x 1 + USB 2.0) 1 x M.2 B-Key 2242/3042 with Nano SIM Card Socket (PCIe x1, SATAIII, & USB) 32GB eMMC Onboard
TPM	TPM 2.0
Supported OS	Win 10 Win 11 Linux Ubuntu
Display	
Chipset	Intel® UHD Graphics
Interface	2 x DisplayPort 1.4b 4K@60Hz 1 x LVDS/eDP
Multi-Display	Support 3 Independent Displays
Audio	
Chipset	Realtek HD Audio
Amplifier	3W Per Channel Amplifier



Ethernet	
Controller	2 x Intel® Ethernet Controller I226-V (2.5GbE)
Connector	2 x RJ45
External I/O	
Display	2 x DisplayPort
USB	3 x USB 3.2 Gen2 Type-A (Red) USB Type-C OTG
LAN	2 x RJ45
Audio	Combo Audio Jack- Line-out and Mic-in
Internal I/O	
Display	1 x LVDS Header 1 x eDP Header (Optional)
USB	2 x USB 2.0 Headers (4 Ports)
COM	2 x RS232 2 x RS232/422/485
SATA	1 x SATAIII, 1 x SATA Power Connector
GPIO	1 x 8-bits GPIO Header
DC-in	1 x 4-pin DC-in Connector



Mechanical & Environment

Power Requirement	12V-24V Wide Range DC-In
Operating Temperature	0°C ~ 60°C (32°F ~ 140°F)
Storage Temperature	-20° C ~ 80° C (-4°F ~ 176°F)
Operating Humidity	5% to 90% non-condensing
Cooling Design	Standard: Heatsink Cooling Design Optional: Heat Spreader Cooling Design
Form Factor	3.5" Single Board Computer (SBC)
Certification Information	CE, FCC Class B, RoHS Compliant
Dimensions	5.7" x 4" (146mm x 102mm)
Weight	0.44lbs (0.2kg)

Ordering Info

ECM-ADLN-N97	3.5" SBC with Intel® Processor N97 Onboard
Accessory	1 x SATA Power Cable 1 x DC-In Power Cable
OEM/ODM	Optional SKU for using Intel® Atom® or Pentium® 15W Processor, please contact BCMSales@bcmcom.com

* All product specifications and images are subject to change without notice. Last update: 06/17/2024



BCM Advanced Research
11 Chrysler, Irvine, CA 92618 USA
An Industry Leader in Industrial Motherboards
& Embedded Computing

www.bcmcom.com
BCMSales@bcmcom.com
(949) 470-1888