

HYPER-ASL

PICO-ITX SBC with Intel® Alder Lake-N/Amston Lake on-board SoC

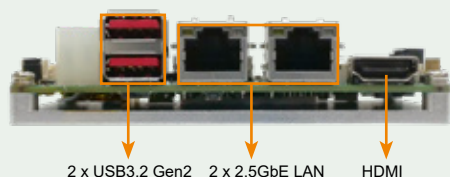
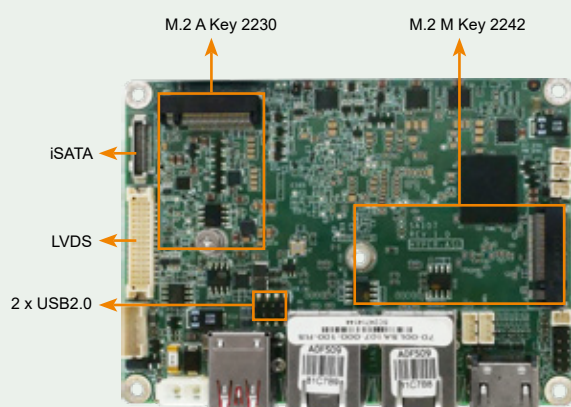
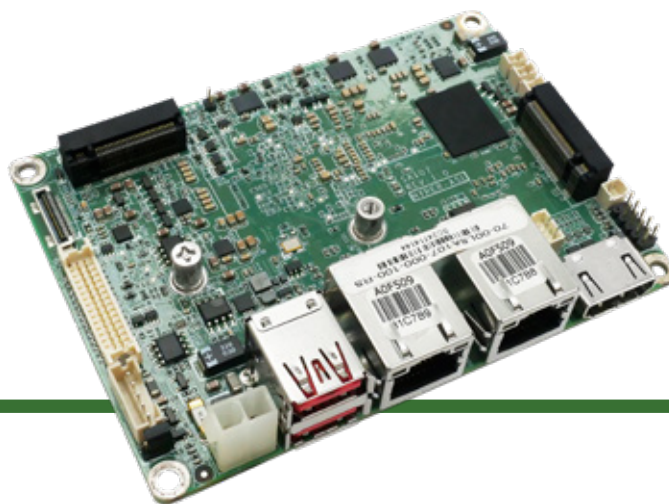
- On-board LPDDR5 8G pre-installed (system max.16GB)
- Double displays with 1 x HDMI 2.0 and 1 x LVDS
- High speed I/O interface for USB 3.2 gen 2, SATA 6Gb/s
- Support 2 x 2.5GbE with i226-V
- Support M.2 A Key and M.2 M key



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HYPER-ASL

PICO-ITX SBC with Intel® Alder Lake-N/
Amston Lake on-board SoC, with 8GB
LPDDR5 memory on board default, with HDMI,
LVDS, M.2 M key, M.2 A key, USB 3.2, iSATA
6GB/s, COM, RoHS



Low-power Intel® Amston Lake Atom™ x7000 series processor

Equip with Intel® Amston Lake Atom™ X7211RE, X7213RE, Atom™ X7433RE and Atom™ x7835RE on board processor



Supporting Intel® I226-V 2.5GbE Controller

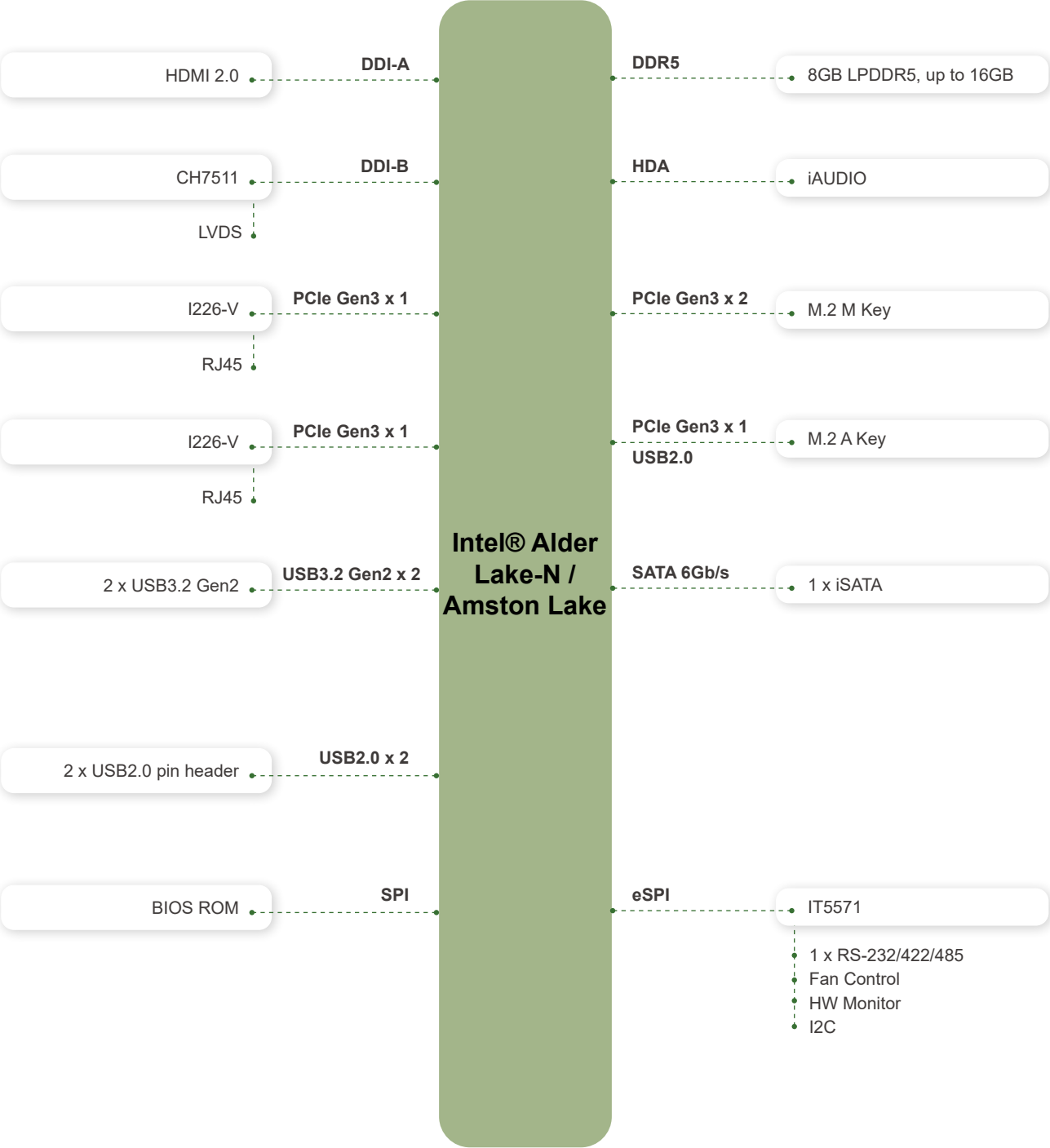
Two RJ45 network interface is supported via Intel® I226-V 2.5GbE controller, achieving up to 2.5GbE network transmission rate



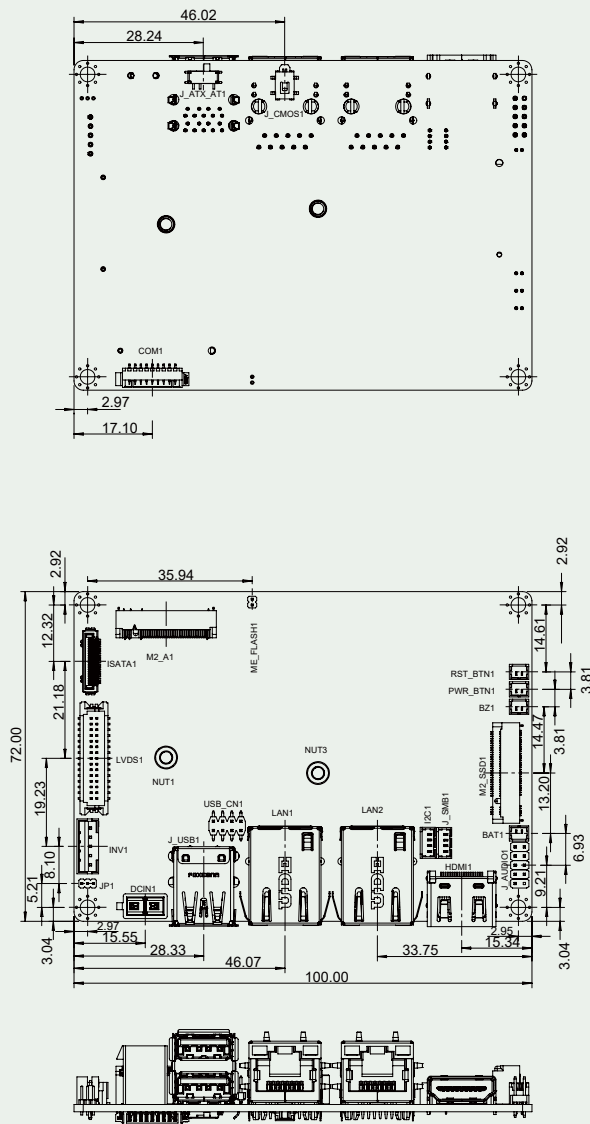
Supporting M.2 A Key and M.2 M Key expansion

It provides one M.2 A-key for WIFI/Bluetooth module, one M.2 M-key for NVME storage.

Block Diagram



Dimensions



Specifications

Model	HYPER-ASL
SoC	Support Intel® Alder Lake-N/Amston Lake series processor. Intel® Alder Lake-N N97 on-board SoC Intel® Amston Lake x7433RE on-board SoC Intel® Amston Lake x7835RE on-board SoC
BIOS	AMI UEFI BIOS
Memory	Dual channel on-board LPDDR5 8G pre-installed (system max.16GB)
Graphics Engine	Intel® UHD Graphics
Display Output	1 x HDMI 1.4 (4K @ 30Hz) 1 x LVDS: 24-bit dual-channel, up to 1920 x 1200
Ethernet	LAN1: Intel® I226-V 2.5GbE controller LAN2: Intel® I226-V 2.5GbE controller
External I/O interface	2 x USB3.2 Gen2 (10Gb/s)
Internal I/O interface	2 x USB2.0 (2x4 pin, P=2.0) 1 x iSATA 6Gb/s 1 x RS-232/422/485 (1x9 pin, P=1.25)
Audio	1 x iAUDIO
Front Panel	1 x Front panel (Power button, 1x2pin P=1.25mm, reset button 1x2pin P=1.25mm)
Expansion	1 x M.2 A Key 2230 (PCIe Gen3 x1 & USB2.0) 1 x M.2 M Key 2242 (PCIe Gen3 x2)
I ² C/SMBus	1 x I ² C (1x4 pin) 1 x SMBus (1x4 pin)
Power supply	12V DC input Support AT/ATX mode
Watchdog Timer	Software Programmable support 1~255 sec. System reset
Operating Temperature	0°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Operating Humidity	5% ~95%, non-condensing
Power Consumption	12V@2.724A (Intel® Alder Lake-N N97 with 8 GB 4800 MHz LPDDR5 memory, max.loading, EuP mode disabled)
Dimensions	100mm x 72mm
Weight	600g / NW: 250g

Packing List

1 x HYPER-ASL SBC with heat spreader	1 x iSATA cable (PN: 32801-010500-100-HF)
1 x QIG	1 x Power cable (PN:32002-012700-100-RS)

Ordering Informaiton

HYPER-ASL-N2C-R10	PICO-ITX SBC with Intel® Alder Lake-N N97 on-board SoC, with 8GB LPDDR5 memory on board default, with HDMI, LVDS, Dual LAN, M.2 M key, M.2 A key, USB 3.2, iSATA, COM, RoHS
HYPER-ASL-R3C-R10	PICO-ITX SBC with Intel Atom® x7433RE on-board SoC, with 8GB LPDDR5 memory on board default, with HDMI, LVDS, Dual LAN, M.2 M key, M.2 A key, USB 3.2, iSATA, COM, RoHS
HYPER-ASL-R4C-R10	PICO-ITX SBC with Intel Atom® x7835RE on-board SoC, with 8GB LPDDR5 memory on board default, with HDMI, LVDS, Dual LAN, M.2 M key, M.2 A key, USB 3.2, iSATA, COM, RoHS

Optional Accessories



Optional Accessories

32001-008600-200-RS	Dual-port USB 2.0 cable, 210mm, P=2.0
32205-008000-100-RS	Flat cable, RS-232/422/485, 250mm, 1x9 pin, P=1.25
AC-KIT-888S-R10	Realtek ALC888S 7.1 Channel HD Audio peripheral board, RoHS
42306-0331E4-00-HF	Cooler Module for 2" HYPER series, RoHS