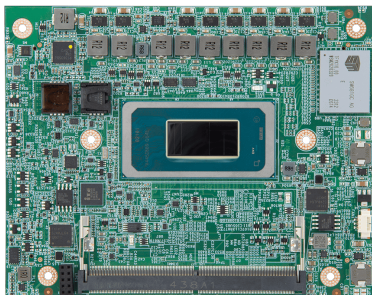




COMX-A300

Intel® Core™ Ultra processors (Arrow Lake/Meteor Lake U/H) CPU, COM-HPC Client Size A Module



Features

- COM-HPC® Client Size A Module
- Intel® Core™ Ultra Processor (Arrow Lake/Meteor Lake U/H-series)
- Intel® Xe LPG graphic up to 128EU, 4 independent 4K display
- Dual-CH DDR5 up to 96GB 6400MT/s SO-DIMM
- Support Max. 4 independent displays
- 8.5V ~ 20V Wide Range Voltage Input
- Multiple I/O expansion: 2.5GbE, PCIe Gen5, USB4 & USB3.2 Gen2, SATA3.0

System

CPU	- Intel® Core™ Ultra 7 255H (6 P-Cores 2 GHz, 8 E-Cores 1.5 GHz, 2 Low Power E-Cores 0.7 GHz, 24 MB cache, 28W)
	- Intel® Core™ Ultra 5 225H (4 P-Cores 1.7 GHz, 8 E-Cores 1.3 GHz, 2 Low Power E-Cores 0.7 GHz, 18 MB cache, 28W)
	- Intel® Core™ Ultra 7 255U (2 P-Cores x 2 GHz, 8 E-Cores 1.7 GHz, 2 Low Power E-Cores 0.7 GHz, 12 MB cache, 15W)
	- Intel® Core™ Ultra 5 225U (2 P-Cores 1.5 GHz, 8 E-Cores 1.3 GHz, 2 Low Power E-Cores 0.7 GHz, 12 MB cache, 15W)
	- Intel® Core™ Ultra 7 155H (6 P-Cores 1.4 GHz, 8 E-Cores 0.9 GHz, 2 Low Power E-Cores 0.7 GHz, 24 MB cache, 28W)
	- Intel® Core™ Ultra 5 125H (4 P-Cores 1.2 GHz, 8 E-Cores 0.7 GHz, 2 Low Power E-Cores 0.7 GHz, 18 MB cache, 28W)
	- Intel® Core™ Ultra 7 155U (2 P-Cores 1.7 GHz, 8 E-Cores 1.2 GHz, 2 Low Power E-Cores 0.7 GHz, 12 MB cache, 15W)
	- Intel® Core™ Ultra 5 125U (2 P-Cores 1.3 GHz, 8 E-Cores 0.8 GHz, 2 Low Power E-Cores 0.7 GHz, 12 MB cache, 15W)
	Memory
	2 x 262-pin DDR5 SO-DIMM sockets, supporting up to 96GB 6400 MHz SDRAM
Graphics	Intel® ARC (H only) Xe LPG+ graphics
Graphic Interface	3 x DDI ports and 1 eDP
SATA	2 x SATA (share with PCIe)
LAN Chipset	2 x Intel® I226LM 2.5GbE controllers
Watchdog Timer	1~255 levels reset
TPM	Onboard TPM 2.0

I/O

Serial Port	GPIO: 12 bit GPIO (default 6 input / 6 output) I ² C Baud Rate: 400KHz SMBus Baud Rate: 100KHz UART TX/RX signal only
USB Port	2x USB4 2x USB 3.2 Gen2 8x USB 2.0
LAN	2 x Ethernet with TSN & WOL support
Audio	2 x Soundwire Supports HD link or I2S or 2 x Soundwire
Expansion Bus	4 x PCIe1 Gen4 (Lane 0-3), configurable to x1, x2, x4
	2 x PCIe4 Gen4 (Lane 4-7, 8-11)
	1 x PCIe4 Gen4 (Lane 12-15) shared with optional onboard NVMe
	4 x PCIe1 Gen4 (Lane 16-19), *BOM optional and configurable to x1, x2, x4
	1 x PCIe8 Gen5 (Lane 32-39), Processor H only

OS support

System	Windows® 10 IoT Enterprise 64-bit / Windows® 11 IoT Enterprise 64-bit, Linux (Ubuntu 20.04)
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Mechanical & Environmental

Power Requirement	8.5V~20V wide range voltage input, +5VSB
Operating Temp.	-20 ~ 60°C (-4 ~ 140°F)
Storage Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% @ 60°C (non-condensing)
Dimensions	95 x 120 mm (3.74" x 4.72")



Block Diagram

