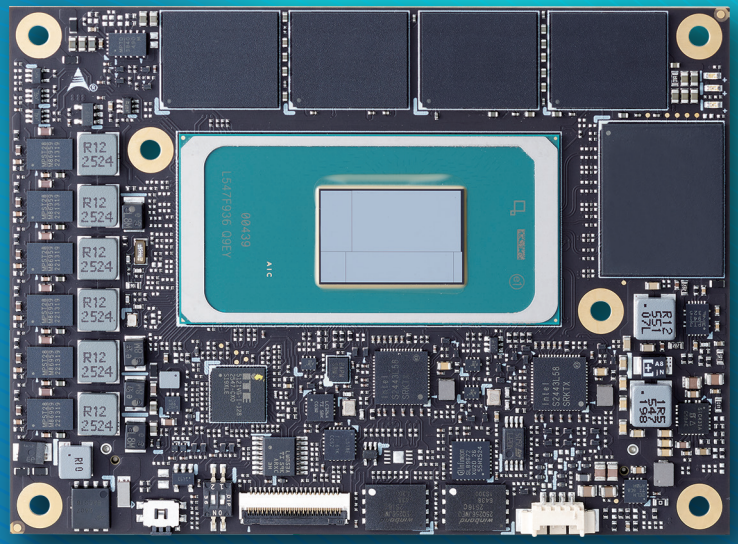
ADLINK
LEADING EDGE AI COMPUTING

For Edge AI Workloads

COM-HPC-mPTL

Intel® Core™ Ultra Series 3 COM-HPC Mini Type Module



Upgrade your edge design with server-tier capability in a compact 95mm x 70mm module. Built on the COM-HPC R1.3 open standard and powered by Intel® Core™ Ultra Series 3 processors, the COM-HPC-mPTL brings integrated AI acceleration, powerful high-performance graphics, extreme power efficiency, and high-speed I/O including PCIe Gen5 support directly to space-constrained systems.

Whether you are building next-gen industrial automation, medical equipment, robotics or rugged systems, scale down size without scaling back compute.

- Intel® Core™ Ultra Processor Series 3 with up to 16 cores at 15-65W TDP
- Intel® Arc™ Xe3 Graphics up to 120 TOPS
- Intel® NPU 5.0 up to 50 TOPS
- 16 PCIe lanes (up to 12 PCIe Gen5 lanes)
- Up to 64GB LPDDR5X memory, up to 8533MT/s
- USB4, DP, HDMI, eDP display support
- PICMG COM-HPC R1.3 Mini (95mm x 70mm)

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COM-HPC®

Series 3 intel CORE ULTRA 7

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Massive Edge Power, Mini Footprint.

Fast-track your design with the Mini Type Panther Lake Dev Kit! Skip lengthy board design and validate your software, carrier layout, and I/O instantly. Complete with out-of-the-box breakout interfaces and reference schematics, this kit minimizes design risk and cuts months off your time-to-market.

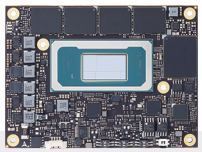


Key Features

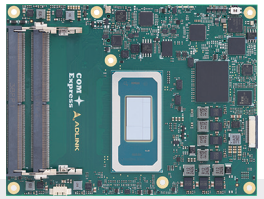
- Edge AI
- High Scalability
- Reduced TCO
- 10 Years Longevity

Purchase at
www.ipi.wiki

COM-HPC-mPTL



Specifications



Express-PTL

Intel Core Ultra Series 3 X7 / 7 / 5 (formerly Panther Lake)	CPU	Intel Core Ultra Series 3 Ultra X7 / X5 (formerly Panther Lake)
Up to 64GB LPDDR5X	Memory	Up to 128GB (2x 32GB) DDR5 SODIMM
AMI UEFI with CMOS backup in 32MB SPI BIOS	BIOS Type	AMI UEFI with CMOS backup in 32MB SPI BIOS
2x DDI (DP/HDMI) eDP1.4a	Graphics Outputs	3x DDI (DP/HDMI) 1x LVDS
1xHD Audio	Audio	1x HD Audio
2x MIPI-CSI (opt.)	Camera	2x MIPI-CSI (opt.)
up to 2x 2.5GbE (Intel I226, TSN opt.)	NBASE-T Ethernet	up to 1x 2.5GbE (Intel I226, TSN opt.)
up to 4x USB3.2 Gen2 x1 4 x USB2.0	USB	4x USB 3.2 / 8x USB 2.0
n/a	Serial ATA	4x SATA
Up to 16 PCIe lanes :	PCI Express	20 PCI Express Lanes :
1 PCIe Gen5 x8 (8-15)		1 PCIe Gen4 x8 (16-23/H484 SKU)
1 PCIe Gen4 x4 (0-3)		4 PCIe Gen4 x1 (0-3)
1 PCIe Gen4 x2 (4-5)		2 PCIe Gen4 x1 (4-5)
1 PCIe Gen4 x2 (6-7)		1 PCIe Gen4 x1 (6)
		1 PCIe Gen4 x1 (7 option with LAN i226)
TPM 2.0	TPM	TPM 2.0
SMBus	Management Bus	SMBus
EAPI/SEMA Debug/JTAG	Embedded Features	EAPI/SEMA Debug/JTAG
Standard Input: AT mode 12V+/-5%	Power Supply	Standard Input: ATX: 12V±5% / 5Vsb ±5%; or AT: 12V±5%
Wide Input: AT: 8.5-20V		Wide Input: ATX: 8.5-20V / 5Vsb ±5%; or AT: 8.5-20V
Standard: 0°C to 60°C	Operating Temperature	Standard: 0°C to 60°C
Industrial: -40°C to 85°C		Industrial: -40°C to 85°C
PICMG COM-HPC: Rev 1.3 mini Type 95mm x 70 mm	Form Factor & Compatibillity	PICMG COM Express Rev 3.1 Basic Type 125mm x 95 mm
Ubuntu	OS support	Ubuntu

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