

The Small Form Factor Powerhouse

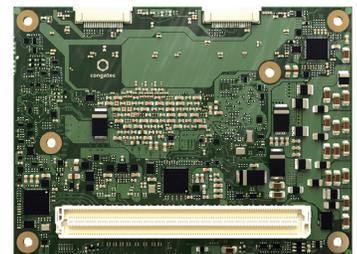
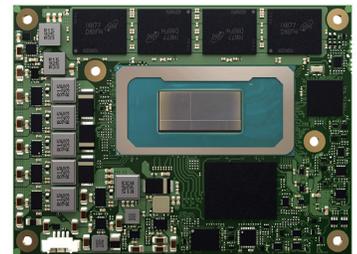


conga-HPC/mPTL

Workstation Power in a COM-HPC Mini Footprint



The [conga-HPC/mPTL](#) delivers workstation-grade AI performance within the compact COM-HPC Mini footprint. Harnessing Intel® Core™ Ultra Series 3 processors, this powerhouse provides up to 16 cores and 180 total platform TOPS to handle the most demanding edge workloads. While engineers traditionally struggle with the thermal and cost overhead of discrete hardware in space-constrained designs, the integrated NPU 5.0 and Intel® Arc™ GPU effectively eliminate the need for external accelerators. Utilizing the advanced Intel 18A process ensures a massive leap in power efficiency, enabling seamless system consolidation for autonomous robots and medical handhelds. Unmatched data throughput via PCIe Gen 5 and USB4 provides uncompromised connectivity and computing density in a SWaP-C optimized envelope. Finally, as an aReady. COM, this module is part of the congatec application-ready ecosystem of building blocks that simplifies system consolidation and connectivity to reduce market risks and accelerate development timelines.



Key Features



SWaP-C
Optimized



High-Speed
Connectivity



AI
Performance



Application
Ready

Intel Products & Technology



Intel® Core™
Ultra Processors



Intel® Arc™
Graphics



OpenVINO™
Toolkit

Intel® 18A
Process Node

Intel technologies may require enabled hardware, software or service activation. // No product or component can be absolutely secure. // Your costs and results may vary. // Performance varies by use, configuration and other factors. // See our complete legal [Notices and Disclaimers](#). // Intel is committed to respecting human rights and avoiding causing or contributing to adverse impacts on human rights. See Intel's [Global Human Rights Principles](#). Intel's products and software are intended only to be used in applications that do not cause or contribute to adverse impacts on human rights.

© Intel Corporation. Intel, the Intel logo and other Intel marks are trademarks of Intel Corporation or its subsidiaries.

Other names and brands may be claimed as the property of others.