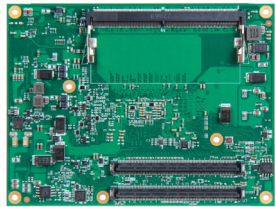
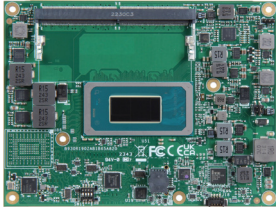


COM Express Type 6 Basic Module with Intel® Core™ Ultra Processors



High-performance COM Express® module optimized for AI acceleration and embedded industrial applications

The [PCOM-B65A](#) is a COM Express® module built on the Intel® Core™ Ultra processor, compliant with the COM Express® Rev. 3.1 standard. It features the VNNI (Vector Neural Network Instructions) set, part of Intel® Deep Learning Boost, which accelerates AI inference by combining multiple operations into single instructions for faster and more efficient neural network processing. With a thermal design power of 15–28W (select SKUs), it is ideal for embedded and industrial applications. The integrated Intel NPU delivers up to 20× performance-per-watt improvement for AI workloads, while Intel® Arc™ graphics enhances AI performance by up to 50% compared to previous generations. Key features include up to 6 performance cores, 8 efficient cores, 2 low-power cores, 128 graphics execution units, support for up to 96GB DDR5-5600 memory, 24 PCIe Gen4 lanes, USB 3.2 Gen2, SATA, DDI, VGA, eDP/LVDS, and optional onboard PCIe NVMe SSD.

Key Features



Hybrid CPU & GPU
Performance



High-Speed
Memory



Versatile I/O
Interfaces



Integrated
NVMe Storage

Intel Products & Technology



Intel® Core™ Ultra Processors



Intel® Arc™ Graphics

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