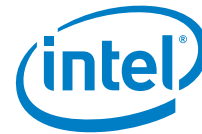


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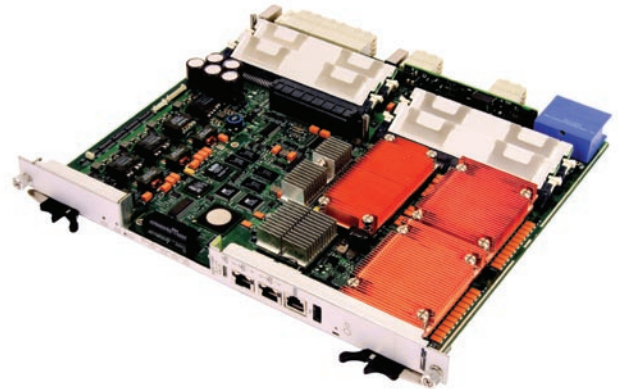
**Intel NetStructure® MPCBL0050 Single Board Computer**

Intel's most powerful AdvancedTCA® form factor single board computer, the Intel NetStructure® MPCBL0050 Single Board Computer, features the Dual-Core Intel® Xeon® processor LV 5138. It combines Intel® 64 technology with dual-core, dual processing capabilities for a total of four processor cores on a single platform, providing performance boost, superior subsystem scalability and density. This fifth-generation design achieves significant performance improvements for compute-intensive and database-access applications including IP Multimedia Subsystems (IMS), wireless control plane, and IPTV.

The MPCBL0050 SBC is optimized to support first-generation AdvancedTCA chassis that limit front-board power to less than 200 W. It also interoperates with AdvancedTCA products from Intel and with third-party building blocks meeting the PICMG® 3.0 specification.

The Dual-Core Intel® Xeon® Processor LV 5138 enables performance improvement greater than five times that of the first-generation Intel NetStructure® MPCBL0001 SBC. Intel 64 supports 64-bit instructions and provides flexibility for 64-bit and 32-bit applications and operating systems. Intel® Core™ microarchitecture supports higher levels of performance and power efficiency

Compliant with the revised AMC.0 specification, the MPCBL0050 SBC provides one AdvancedMC® site to support the next-generation mezzanine card standard. It utilizes PCI Express® and Gigabit Ethernet for maximum throughput, while increased board area and power envelope support high-density I/O mezzanines. AdvancedMC provides full hot swap support and allows management via onboard IPMB. Cards can also reduce time-to-market by providing baseboard modularity via an easy-to-use expansion slot that requires no infrastructure change.

**FEATURES**

- › Dual-Core Intel® Xeon® processor LV 5138 helps reduce power/thermal operating costs and improve data center density
- › Superior subsystem scalability and density support maximum number of network elements in an AdvancedTCA chassis
- › 4 MB shared L2 cache per physical processor allow dynamic allocation between cores, based on application load
- › Intel® 5000P chipset with 1066 MT/s FSB provides optimized support for intensive computing demands of high-performance applications
- › AdvancedMC mezzanine site supports module hot-add and hot-swap, as well as easy expandability and higher throughput bandwidth than PMCs
- › Optional Rear Transition Module supports Fibre Channel, SAS-based HDD, expansion external SAS ports, 4 Ethernet ports, and additional I/O
- › Power and thermal (< 200 W) meets power limits of first-generation AdvancedTCA chassis
- › Intelligent Platform Management Controller (IPMC) supports carrier-grade system reliability and manageability
- › Redundant BIOS images, IPMC firmware images, and dual 256 MB flash drives provide redundancy on key items for high reliability
- › Dual Star GbE base and 4 fabric backplane ports with redundant features support high I/O requirements, access to high-speed storage systems
- › Optional Intel NetStructure® Single Board Computer Diagnostics provide comprehensive diagnostic suite of major SBC subsystems