Processor blade delivers telecom-grade performance with optimum cost efficiency

ADLINK Technology rolls out the newest member of its AdvancedTCA blade family, the aTCA-9300. The aTCA-9300 delivers high performance, high-throughput connectivity, versatile and rich I/O, reliability at a cost-effective price, and is suitable for high-end applications such as network monitoring or media streaming.

The aTCA-9300 features dual 4-core Intel Xeon Processor E3-1275V2/1225V2 running at up to 3.5/3.2 GHz respectively, combined with the Intel C216 Chipset, four-channel DDR3 memory up to 32GB, and 300W power supply subsystem. Although it doesn't have the highest specification in ADLINK's aTCA blade lineup, the aTCA-9300 is an extremely cost-efficient solution for network monitoring, A/A-bis signal monitoring, AXIe, and WIFI AC applications, which require multiple Gigabit data plane throughput and workstation/desktop CPU performance.

The aTCA-9300's versatile connectivity includes dual 10GbE Fabric Interfaces, dual GbE Base Interfaces, six front panel GbE egress ports, front panel dual COM and USB 2.0 ports, and front panel VGA connector. An onboard SATA connector supporting CFast up to 32GB is provided, as well as an optional RTM supporting an 8-channel mini-SAS port, dual 10GbE SFP+ ports, dual USB ports and dual hot-swappable SATA bays to provide additional network throughput and storage capabilities.

According to the latest forecast by the Cisco Visual Networking Index (VNI), the

number of mobile-connected devices will exceed the world's population in 2013, and global mobile data traffic will increase 13-fold between 2012 and 2017. This, combined with the robust development of media applications, will make it challenging for network providers to keep pace with the ever-increasing need for bandwidth, resulting in the need for telecom equipment manufacturers to go through a lengthy process of combining a variety of highly specialized processors with different software programming models to handle multiple communication workloads. To address the needs of high volume data processing and transmission, the ADLINK aTCA-9300 supports the Intel Data Plane Development Kit (Intel DPDK), which maximizes packet processing performance and consolidates three communication workloads—application, control, and packet processing—on a single Intel architecture platform to deliver better performance, reduce costs, and accelerate time-to-market.

The ADLINK aTCA-9300 also supports the Intel Media Software Development Kit (Intel Media SDK), which makes it easy for developers to optimize professional media applications, including video encode and decode; media conversion, streaming, and playback; and video conferencing. The ADLINK aTCA-9300 is suited for use as a media server for applications such as IP Multimedia Subsystem (IMS), network security, and wireless networks.

The ADLINK aTCA-9300 provides rich functionality with highly efficient CPUs, supports high-speed connectivity, and is positioned to handle the challenges of the extremely fast development of today's networking applications. By implementing Intel DPDK and Intel Media SDK technologies together with ADLINK's market-proven capabilities in developing products of high computing power and ultra reliability, the aTCA-9300 enables telecom equipment manufacturers (TEMS) and network equipment providers (NEPS) to build the next-generation telecom networks and communication infrastructure with reliability, competitive pricing, and fast time-to-market.

Learn more about the aTCA-9300 at:
http://www.adlinktech.com/PD/web/PD_detail.php?cKind=&pid=1243&seq=&id=&sid=&source=AATI_PR [1]

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