



Foundations for the All-IP Network

Hardware Foundations for ATCA Subsystems

APPLICATION NOTE 1



Introduction: Application developers and integrators need solutions that scale within and across platforms. They need platforms that flexibly support multiple applications in redundant and Highly-Available configurations. Last but certainly not least, these systems must be cost-effective for 4G, All-IP networks. ATCA/AMC and Adax products are an integral part of meeting these requirements. The ATCA/AMC architecture and Adax components provide the foundation for new products and services in the All-IP network including legacy connections.

Adax PacketRunner (APR): An intelligent ATCA carrier blade for user and control plane telecom applications. Its 4 AMC bays support any combination of Adax or industry standard AMC cards. The QuickPort development suite for the on-board Cavium OCTEON 5650 multi-core processor offers developers a fast path to high performance, highly flexible and scalable subsystems for 4G, LTE, NGMN and IMS network elements.

PktAMC: The Cavium NPU provides hardware acceleration for data plane traffic such as Layer 2 Switching and Routing, MPLS-TP, PBB-

TE, and QoS. Applications, Layer 3 Networking, High Availability and Management can run on the associated APR.

ATM4-AMC: A high-performance WinPath-based STM1/4 card designed for control and user plane applications. The ATM4 supports ATM host termination, switching and L2 or L3 interworking between Gigabit Ethernet and ATM. The ATM4 supports real-time voice and video over AAL2, as well as signaling and IP data over AAL5 bridging 3G and 4G networks.

HDC3-AMC: The latest generation of the highly successful Adax SS7 controller was the first to offer 8 T1/E1 or J1 trunks per card. Specifically designed to meet the demands of wireline, wireless and NGN convergence platforms, the HDC3 excels at SS7 providing a high-density, high-performance solution for SS7 LSLs, Annex A and High-Speed ATM TDM-based signaling. The HDC3-AMC also supports I-TDM for PCM to IP voice applications.

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About Adax Specializing in Foundations for the All-IP Network, Adax offers a complete set of I/O controllers, blades & signaling gateways for SS7, ATM & IP packet processing, signaling & interworking. Adax high performance products meet today's challenges of I/O scalability, cost effectiveness and high availability in LTE, 4G, NGMN and IMS networks.



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