

Legacy Foundations for SS7 Concentration in ATCA & Rack Mount Subsystems

APPLICATION NOTE 4



Introduction: Data traffic growth is driving the 4G All-IP network. The focus on data services means legacy voice and SS7 signaling services will remain in the field much longer than anticipated. Modern high-density legacy solutions are an absolute requirement for next generation network nodes. The not-so-hidden benefit is that Network Service Providers will realize additional ROI from legacy gear during the transition. Adax ATCA/AMC, Rack Mount Server controllers and drivers enable developers who need high-performance, flexible, scalable foundations of up to 32 ports or 992 LSLs of legacy connectivity per ATCA blade.

Adax PacketRunner (APR): An intelligent ATCA carrier blade for user and control plane telecom applications. The on-board Cavium NPU supports any combination of 4 Adax and industry standard AMC cards. Additional compute power for message distribution or upper layer protocol processing is available via the Adax PktAMC or 3rd party PrAMC modules.

QuickPort, Development Suite for APR and PktAMC: Adax has modified and enhanced the Adax Cavium SDK based on years of kernel-level development. This ready-to-go Linux development suite

speeds porting your own or 3rd party applications to the APR or PktAMC. The result is greatly reduced development time and costs, providing a fast time to market for your application.

HDC3: 4 HDC3-AMCs per APR offer 32 ports or 992 LSLs of SS7/ATM via 8 TDM trunks per card. The HDC3 excels at SS7 providing a high-density, high-performance solution for signaling and I-TDM for PCM to IP voice applications. The HDC3 supports port by port configuration for SS7 MTP2 LSLs, Annex A or ATM HSLs. Adax software enhancements efficiently distribute SS7 MTP2 messages to MTP3 residing on another host processor. *The HDC3 is available in PCIe full height and Low Profile, PCI, PMC and Oracle (Sun) PCIe-Express Module (EM) form factors for high-density SS7 connectivity in Rack Mount servers.*

PktAMC: A Cavium-based AMC card supplying additional compute power for message distribution or hosting upper layer protocols such as MTP3/b. The PktAMC utilizes the same QuickPort SDK as the APR, allowing seamless migration of applications from one computing resource to another for maximum flexibility and scalability.

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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.