

LTE eNodeB and EPC Gateways SOLUTION SHEET

IPnexus® Application-Ready Systems



Wireless Equipment Providers worldwide are stepping up development programs to support the large growth potential of LTE deployments. To gain an edge in the market requires being early to market with differentiated features. A solution to this strategy is to design and develop eNodeB base stations and EPC gateways with standards-based LTE Application-Ready Systems. Equipment manufacturers and providers can immediately begin development of their application on receipt of these systems, eliminating the time and costs normally associated with developing a proprietary solution, or integrating, troubleshooting and configuring building blocks from one or more vendors. PT's 1U Application-Ready System is already designed in and deployed in WiMax equipment.

PT's LTE Application-Ready System includes all the major components pre-integrated and configured for high performance, scalability, flexibility, high availability, and compatibility:

- A cost-effective, scalable, and flexible 1U MicroTCA® platform with GPS System Timing Module option for base station synchronization. Fabric options include Ethernet, Serial RapidIO®, and PCI Express®. IPMI-based platform management provides comprehensive monitoring and control of all active components in the system, with SNMP, CLI, and RMCP interfaces.
- High performance, Multi-Core Processor AMCs with storage and video options
- NexusWare® Core: a CGL 4.0 Linux® Distribution with a comprehensive suite of development environment and image building tools specifically tuned for the dedicated hardware and the LTE protocol software. NexusWare also includes NexusWare Portal, a web-based management and development tool used to remotely manage, monitor, and maintain the current configuration.
- PT's Partnership Program supports third party software and hardware solutions to complete the fully purposed requirements for LTE applications. This program includes third party eNodeB and EPC protocol software stacks pre-integrated into NexusWare. It also includes compatibility testing and system integration options for signal processing AMC cards for wireless baseband solutions.
- IPnexus® EMS provides comprehensive, secure, global management of the eNodeB and EPC gateway systems in a network.
- Evolved Packet Core solutions include:
 - Mobile Management Entity (MME)
 - Serving Gateway (SGW)
 - Packet Data Network Gateway (PDN GW)

BENEFITS

Save Valuable Development Resources with Pre-Built, Pre-Integrated Application-Ready Systems from One Vendor

Tightest Hardware and Software Integration and Comprehensive Support

Quicken Time-to-Market for New LTE eNodeB and EPC Solutions

High Performance, Cost-Effective, and Differentiated Options

Modular and Scalable Design Offers Wide Range of Solutions and Easy-to-Upgrade Capabilities

High Reliability Architecture with Comprehensive System and EMS Management



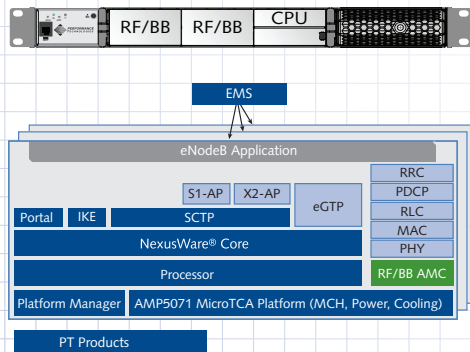
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High Performance/High Reliability Benefits

PT's AMP5071 and AMP5072 MicroTCA® platforms supports up to six AdvancedMC™ module payload slots in a 1U shelf. High reliability is achieved with redundant and hot-swappable power supplies and fan trays. Its cost-effective and innovative architecture integrates non-payload functions, such as the Ethernet switch, Serial RapidIO® switch, and carrier/shelf manager into the rear of the chassis, thus eliminating the high overhead costs associated with standard MCH modules. AMC modularity and hot swappability allows technicians to easily service the system, add more AMC modules to scale processing as subscriber traffic increases, or to increase performance as new processor AMCs become available. All components are designed and managed for the longest possible lifespan, both hardware platforms and software, to ensure long term product availability and compatibility.

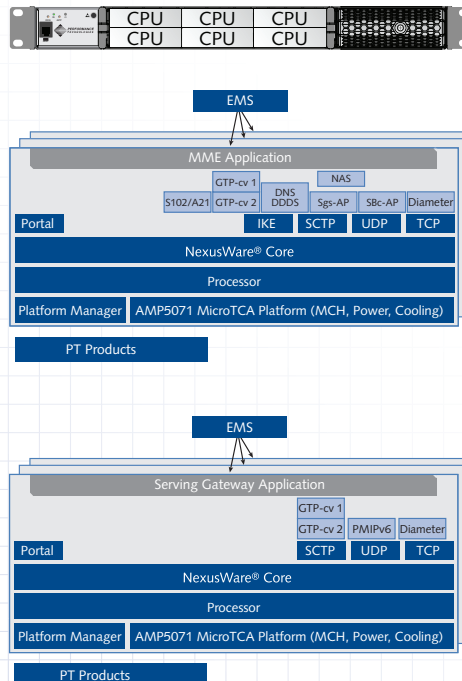
EnodeB Solution (2 sector, 3 sector, and 6 sector options)



Economic Benefits

In this economy, it is more important than ever to minimize Total Cost of Ownership in new product planning. Many companies are recognizing that proprietary solutions or piecemealed solutions from multiple vendors add unseen costs. Not only do our LTE Application-Ready Systems reduce development costs and get to market faster, they also reduce post-release resources and the need for additional expenses. This includes product change management, procurement, and technical support. Finally, PT develops its systems to be standards-based and modular to be used for future applications and designed with long-life span components to ensure availability in years to come.

EPC MME and SGW/PGW Solutions



ORDERING INFORMATION

Contact your sales representative to define configurations that are best suited for your application

CONTACT US



205 Indigo Creek Drive
Rochester, NY 14626

Tel: +1.585.256.0200
Fax: +1.585.256.0791
E-mail: sales@pt.com

