

# IPnexus® WiMAX Systems SOLUTION SHEET

## Application-Ready Systems



Wireless Equipment Providers worldwide are stepping up development programs to support the large growth potential of WiMAX 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 base stations, ASN Gateways, and CSN/HA gateways with standards-based WiMAX 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 WiMAX Application-Ready System includes all the major components preintegrated and configured for high performance, scalability, flexibility, high availability, and compatibility:

- High performance, multi-core processors AMCs, and Storage and Video AMC 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 WiMAX 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 WiMAX applications. This program includes third party base station, ASN, and CSN gateway protocol software stacks pre-integrated into Nexusware. It also includes compatibility testing and system integration options for signal processing AMC cards for wireless base-band solutions.
- IPnexus® EMS provides comprehensive, secure, global management of the base station and ASN/CSN gateway systems in a network.
- 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.

## 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 WiMAX Base Station and ASN/CSN 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.

### Economic Benefits

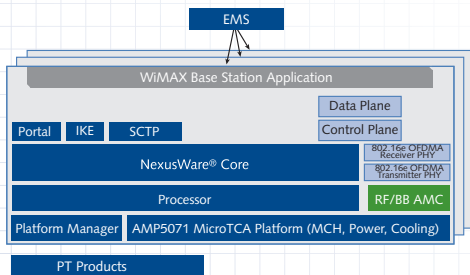
In this economy, it is more important than ever to minimize Total Cost of Ownership in new product planning. Many companies are recognizing that proprietary solutions or piece-mealed solutions from multiple vendors add unseen costs. Not only do our WiMAX Application-Ready Systems reduce development costs 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.

## ORDERING INFORMATION

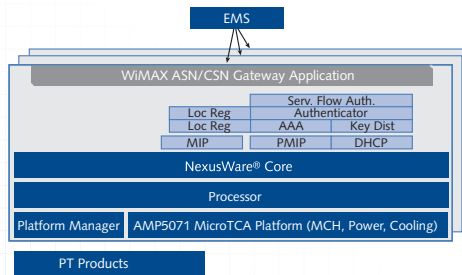
To discuss specific requirements and/or pricing, contact [sales@pt.com](mailto:sales@pt.com).

### Base Station Solution

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



### ASN/CSN Gateway Solutions



## CONTACT US

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