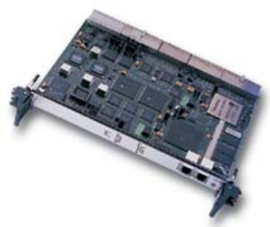
IPnexus™
Switching & Access Products



The IPnexus™ family of Ethernet switching and network access products supports the PICMG® 2.16 specification which overlays a packet-based switching architecture on top of CompactPCI®. This creates an Embedded System Area Network (ESAN), enabling an Ethernet-based dual-star topology to exist within the chassis.

PICMG 2.16 has been designed to vastly increase inter-board communication capabilities of subsystems within the chassis by moving data off a shared bus architecture and onto a high availability, high speed, switched 10/100/1000 Ethernet-based network topology. This enables all slots within the chassis to be interconnected by a deterministic, reliable, and scalable point-to-point embedded network based on already established enterprise network industry standards.

CPC5400 - *8 Gigabit Port (10/100/1000) Switching Platform*
Carrier-grade switching fabric, PICMG 2.16 compliant, PMC/PPMC site, wire-speed layer 2/layer 3 (IP) switching, layer 4-7 filtering

CPC440X - *24 + 2 Port (10/100/1000) Switching Platform*
Carrier-grade switching fabric, PICMG 2.16 compliant, wire-speed layer 2/layer 3 (IP) switching, layer 4-7 filtering

CPC3400 - *24 port 10/100 Switching Platform*
Carrier-grade switching fabric, PICMG 2.16 compliant, wire-speed switching

CPC396 - *Dual T3/H.110 TDM Circuit Switch*
Carrier-grade dual DS-3 communications interface, PICMG 2.16 compliant, Motorola MPC8260 processor, dual Ethernet

CPC388 - *Octal T1/E1/J1 Telecommunications Adapter*
Carrier-grade octal T1/E1/J1 communications interface, PICMG 2.16 compliant, Motorola MPC8260 processor, dual Ethernet

NexusWare™ - *Linux-based Development Environment*
Advanced communications subsystems; PICMG 2.16 capabilities; open development, integration and management environments

MicroLegend®
Signaling Products

MicroLegend® Signaling Gateways support the signaling convergence of circuit-switched and packet-switched networks. The MicroLegend Signaling Gateway provides access to SS7 networks, and when used in conjunction with softswitches, media gateways and application servers, can help to perform IP telephony applications that can emulate the call control functionality or service processing capabilities of traditional circuit switched telephone network switches.

Performance Technologies offers a suite of carrier-grade signaling gateway solutions in stand-alone or embedded form factors suitable for new or existing telephony carriers or telephony equipment manufacturers.

MicroLegend Signaling Gateway - *Stand-alone Unit*

- Slot-one CPU with three additional "hot-swap" cPCI slots for T1, E1, J1, V.35 I/O supporting up to 24 SS7 links per chassis.
- Each unit 3U (5 ¼" high) rack mountable.
- Distributed SS7 software for greater reliability & scalability - up to 96 links with only a single point code.
- Four standard international software stacks with multiple stack support.
- Onboard protocol conversion capability available.
- NEBs certified, network proven, carrier-grade solution.
- Web based management with remote capability and support for SNMP
- Configurable for SEP (Signaling End Point) or STP functionality.

MicroLegend Signaling Blade - *Embedded "System-in-a-Slot"*

- Hot-swap cPCI form factor locally bootable from compact flash.
- T1, E1, J1, V.35 I/O support for up to 8 SS7 links.
- Distributed SS7 software architecture for greater reliability & scalability.
- Four standard international software stacks with multiple stack support on each module.
- Supports the latest IETF SIGTRAN protocols.
- Onboard protocol conversion available.
- Web-based management with remote capability and support for SNMP.
- Configurable for SEP (Signaling End Point) or STP functionality.

SEGway™
SS7 over IP Solutions

The SEGway™ product family offers an integrated solution for transporting SS7 messages over IP at dramatically lower costs than with traditional SS7 infrastructures.

SEGway Edge - *An Alternative for Transporting SS7 Messages over Long Haul Links*
These devices transparently (no point codes) connect to SS7 network entities and carry SS7 messages between other SEGway devices over shared-use IP networks.

SEGway Link Concentrator - *SS7 Link Concentration and Routing Functionality*
These devices use high-level SS7 functionality to act like an STP, providing SS7 message consolidation and routing capability that reduces the number of expensive SS7 links required to terminate traffic in SS7 networks. In addition, they can route messages to any entity location within an SS7 network.

A SEGway solution is designed to save money for carriers, service providers and other companies requiring SS7 transport. Using the SEGway Edge, network operators can significantly reduce the cost of transporting SS7 messages between existing SS7 network nodes like switches (SSP's), signal transfer points (STP's) and databases (SCP's). The SEGway Link Concentrator lowers costs even further by reducing the need to add and maintain expensive new links to STPs or other SS7 network entities. With its low cost of ownership, customers will realize rapid payback on their investment in a SEGway solution.

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Network Access
Products

Designed for the equipment developer and system integrator, these products support PCI, CompactPCI and PMC architectures. Protocols include HDLC, LAPD, Frame Relay, SS7, and X.25, for the Solaris, Linux, Windows NT operating systems. Each protocol is fully integrated to ease and accelerate integration efforts

PCI384

MPS800

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CPC340H & CPC348
CompactPCI 4 & 8 port 6U synchronous/serial adapter, QUICC/PowerQUICC processor, Hot Swap, V.35/RS422/RS232.

CPC376
CompactPCI 2-Port T1/E1/J1 6U telecom adapter, Hot Swap, PowerQUICC processor.

CPC380
CompactPCI 4 port T1/E1/J1 telecom adapter, 6U, Dual PowerQUICC processors, H.110 support, Hot Swap.

PCI334 & PCI344
PCI based 4 port synchronous/serial adapter, QUICC/PowerQUICC Processor, V.35/RS422/RS232.

PCI37xAPQ & BPQ
PCI based 2-port T1/E1/J1 telecom adapter, PowerQUICC processor, integrated CSU/DSUs.

PCI384
PCI based 4-port T1/E1/J1 telecom adapter, PowerQUICCII processor, software programmable interfaces.

PMC334
PMC 4-port synchronous/serial WAN communications module, QUICC processor, front or rear I/O.

PMC370P/372P
PMC 2-port T1/E1/J1 WAN communications module, PowerQUICC processor.

MPS800
8-port WAN over IP communication server, 10/100Base-T Ethernet ports, PowerQUICC processor, SNMP support, API, X.25/Frame Relay/HDLC/Radar Receiver/SBSI.

ChanneLink™ & ComLink™
Solaris or Linux based drivers for telecom connectivity in channelized or non-channelized modes. Provides transparent link to SunSoft protocols, and an API for links to other protocols or development purposes.

WAN Protocols
From Channel7 to WAN Protocols, Performance Technologies offers a wide variety of software solutions, integrated tightly with its hardware products, saving valuable development time and reducing time to market. All of its connectivity HW/SW products are operable under the Solaris, Linux, and Windows NT OS environments.

PERFORMANCE TECHNOLOGIES

innovative IP communications

Product Overview

Performance Technologies is a leading supplier of embedded Ethernet switching, SS7/IP signaling, and network access products for wireline, wireless, and next-generation IP networks.

IPnexus™ Switching & Access Products

PICMG® 2.16 compliant embedded Ethernet switching and network access products

MicroLegend® Signaling Products

SS7/IP solutions for the signaling convergence of circuit and packet-switched networks

SEGway™ SS7 over IP Solutions

SS7 over IP
SS7 messages transported reliably over IP for dramatically lower operating costs

IPnexus™ CPC4406

MicroLegend® Signaling Gateways

SEGway™ Edge

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