

iNAV[®] 74PF Processor AdvancedTCA[™] Blade

High-volume transaction and user-plane traffic processing

FEATURES

Freescale 8641D Dual Core Processors

- Based on the Power e600 Core
- 1 – 4 Processor Configurations available

Superior cost, density, memory capacity, and thermal performance compared to Processor AMCs plugged into a carrier card

10Gbe links to ATCA fabric for high throughput and data transfer

Independent Power Architecture Technology based board management computer to enable full use of processors

Up to 4 GB of memory per processor complex

Linux or VxWorks Board Support Package

APPLICATIONS

Wireless infrastructure and IMS control plane
Complex processing of Layer 4-7 protocols
Unified control-plane and host media processing

High Performance

The iNAV 74PF is targeted at high-volume transaction and user-plane traffic processing required for next generation Wireless infrastructure and IMS control planes. These network platforms will be required to serve millions of active terminals and will require the packet processing power delivered by the iNAV 74PF.

Powerful Solution Architecture

The iNAV 74PF supports complex processing of Layer 4-7 protocols and unified control-plane and host media processing using Power Architecture Technology vector processing extensions. Integrating the iNAV 74PF with I/O AdvancedMC[™] such as the iSPAN[®] 3600 series hosted on the iNAV 31K Carrier Card results in a very powerful solution architecture which can be used to implement the next generation network platforms.

High Density

The iNAV 74PF is designed to provide the highest possible density of simple, independent, identical high-performance processor complexes on an ATCA blade today. The iNAV 74PF will allow network platforms previously designed with legacy technology to significantly reduce footprint, power, and cost in an AdvancedTCA architecture.

Power Architecture Technology Family

For customers who wish to remain with Power Architecture Technology processor family, the iNAV 74PF offers a substantial control plane processor upgrade





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Highest possible density of simple, independent, identical high-performance processor complexes

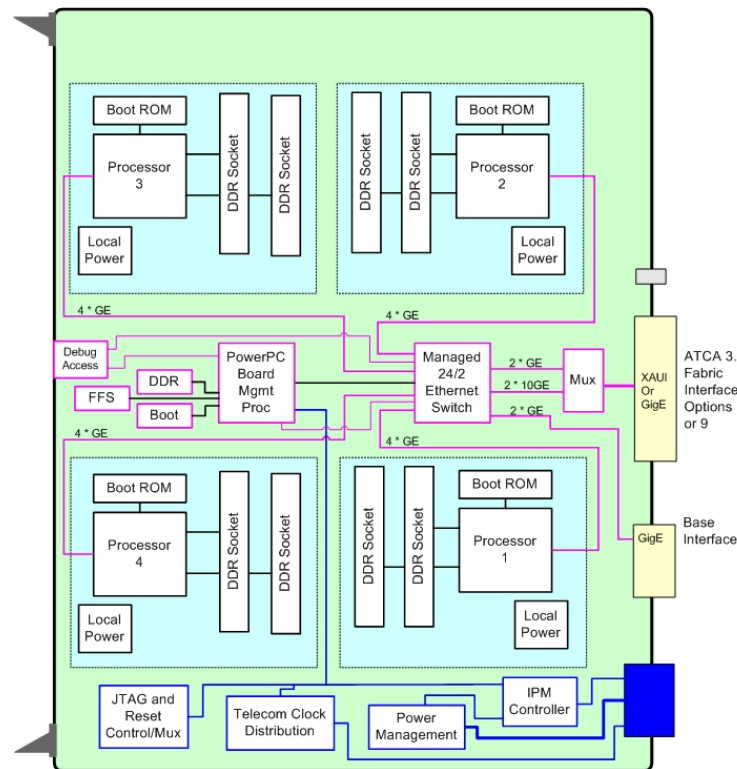
Software

The iNAV 74PF includes a rich suite of software for the Board Management Computer, as well as a fully-featured firmware package for the IPM Controller. The Board Management Computer (BMC) requires no further customer-provided programming, but it is also available for customer-provided application programs if desired. Optional Management and Switching Software can be made available to take advantage of the on board Ethernet Switch.

Configuration Options

The iNAV 74PF can be configured with the following options:

- **Processors / Memory:** As noted in the technical specifications
- **Managed Ethernet Switch: BCM 56502**
Upgrade to the BCM 56502 provides increased performance of the Ethernet Switch. The BCM 56502 provides larger buffers, better traffic capacity and improved queuing support. The choice of switch is transparent to the switch



Tech Specs

Processor	1-4x Freescale 8641D @ 1.333Ghz Dhrystones: 2.1 2.3 MIPS/MHz/core
Memory	Up to 4GB DDR2 SDRAM per processor Tightly coupled, low latency memory subsystem with ECC support 64MB NOR flash for boot purposes per processor with 2 partitions for in-service update
LAN Switch	Broadcom BCM56302 or 56502 4x Gigabit Ethernet per processor
Fabric Interface Options	10 Gigabit Ethernet AdvancedTCA 3.1 Option 9 Gigabit Ethernet AdvancedTCA 3.1 Option 1
Board Management Processor	Power Architecture Technology processor SDRAM: 128MB to 512MB (128MB standard) NAND Boot Flash: 64MB to 1GB (128MB default)
Mechanical Form Factor	AdvancedTCA blade
Length	322.25 mm
Width	280 mm
Operating Environment	
Power	198 W typical / 241 W Max
Temperature	0 to 55°C (32 to 131°F)
Storage Range	-40 to 80°C (-40 to 176°F)
Relative Humidity	5% to 95% non-condensing
Altitude	0 to 2000 M (0 to 6500 ft)

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About Interphase Corporation

Interphase Corporation (NASDAQ: INPH) delivers solutions for network connectivity, interworking, and packet processing for key applications for the communications, Mil/Aero, and enterprise markets. Founded in 1974, Interphase provides expert customization services and contract manufacturing, in addition to its COTS portfolio, and plays a leadership role in next generation AdvancedTCA[®] (ATCA), AdvancedMC[™] (AMC), PCI-X, and PCIe standards and solutions. Interphase is headquartered in Plano, Texas, with sales offices across the globe.

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