

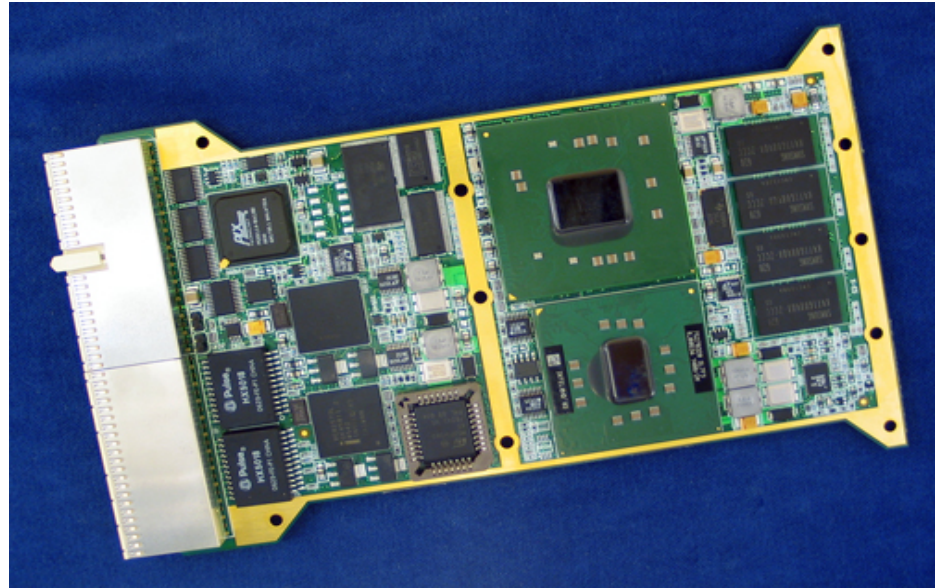
# XPedite7032

Conduction or Air Cooled CompactPCI SBC Based on the Intel Pentium M Processor and Intel 3100 Chipset

XPedite7032

## Features

- Intel Pentium M up to 1.4 GHz
- Intel 3100 Chipset
- Conduction-Cooled
- Ruggedized
- 2 GB DDR2 ECC SDRAM
- 4 GB NAND Flash
- Two Isolated Gigabit Ethernet Interfaces
- Three USB 2.0 Ports
- Six SATA Ports
- Up to 5 MB of Firmware Hub (FWH) Storage
- Optional On-Card Trusted Personality Module (TPM)
- Complies to PICMG 2.0
- AMI BIOS
- LynxOS
- Linux
- VxWorks
- QNX



The XPedite7032 is a 3U conduction or air-cooled CompactPCI single board computer with two isolated Gigabit Ethernet interfaces. The XPedite7032 utilizes the Low Voltage Intel Pentium M processor which provides optimum power conservation while operating at up to 1.4 GHz, giving this module a decisive processing advantage. The XPedite7032 also utilizes the Intel 3100 chipset which was specifically designed for embedded applications, combining integrated server-class memory controller (Northbridge) and I/O controller (Southbridge) functionality into a single device. The XPedite7032 is an ideal ruggedized solution for high-bandwidth processing requirements with limited power consumption.

The XPedite7032 supports up to 2 GB of 400-MHz DDR2 ECC SDRAM and up to 4 GB of NAND Flash to provide ample on-card storage. Up to 5 MB of Firmware Hub (FWH) capacity is also supported for redundant BIOS or OS kernel storage. The XPedite7032 can be used as a CompactPCI system controller or in a peripheral slot. To the system designer, the XPedite7032 provides a feature-rich solution to support the next generation of embedded applications.

## Typical Applications

- Processing Node
- Routing Blade
- System Controller

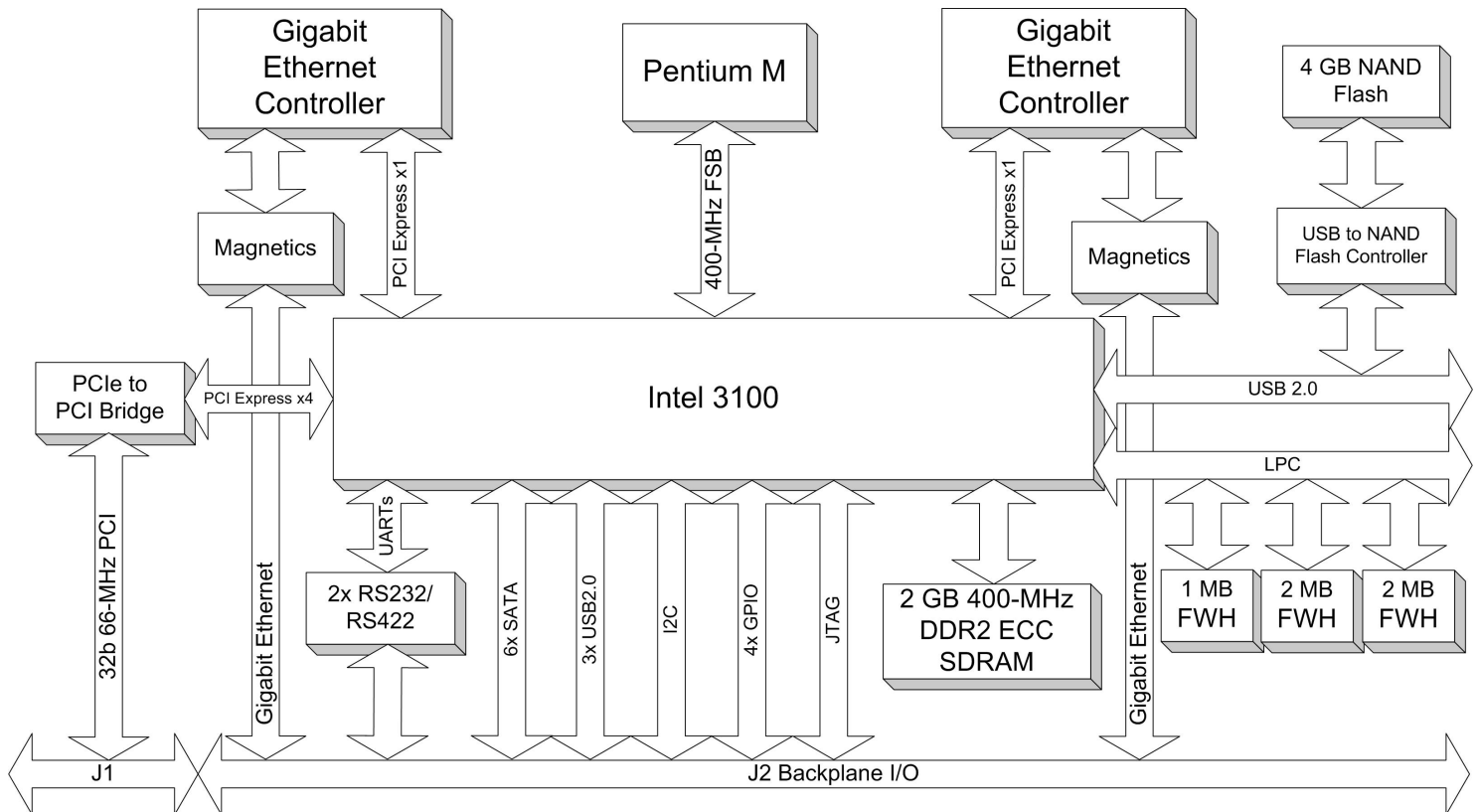
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...Always Fast

For more information on the XPedite7032:  
Visit: <http://www.xes-inc.com/>  
Call: 608-833-1155  
E-mail: [sales@xes-inc.com](mailto:sales@xes-inc.com)

# Block Diagram

# Xpedite7032



## Processor

- LV Intel Pentium M up to 1.4 GHz
- 32 KB L1 Instruction/Data Caches
- 2 MB L2 Cache
- 400-MHz FSB

## Memory & I/O Controller Hub

- Intel 3100
- 2 GB 400MHz DDR2 ECC SDRAM
- 4 GB NAND Flash
- Up to 5 MB of Firmware Hub (FWH) Storage
- Optional Trusted Personality Module (TPM)
- Two x4 and Four x1 PCI Express Interfaces

## J2 Backplane I/O

- Two Isolated Gigabit Ethernet Ports with On-Card Magnetics
- Six SATA Ports
- Three USB 2.0 Ports
- Four GPIO
- I2C
- Two RS-232/RS-422 Serial Ports

## Software

- AMI BIOS
- LynxOS
- Linux
- QNX
- VxWorks

## Physical

- 3U Conduction Cooled CompactPCI Form Factor
- 100mm x 160mm

## Air Cooled Operating Temperature

- 0 to 70C Ambient

## Conduction Cooled Operating Temperature

- -40 to +85C, at Thermal Interface

## Humidity

- 0% to 85%

## Storage Temperature

- -40 to +85C

## Maximum Power Requirements

- 25 Watts @ 25C & 1.4 GHz

## Shock/Vibration

- 40g Peak Half Sine, 6ms
- 0.1g<sup>2</sup>/Hz from 50 to 2000Hz
- 0.06"/10g from 10 to 500Hz

