Artesyn Technologies Katana 752i

Real-Time Processing Blade

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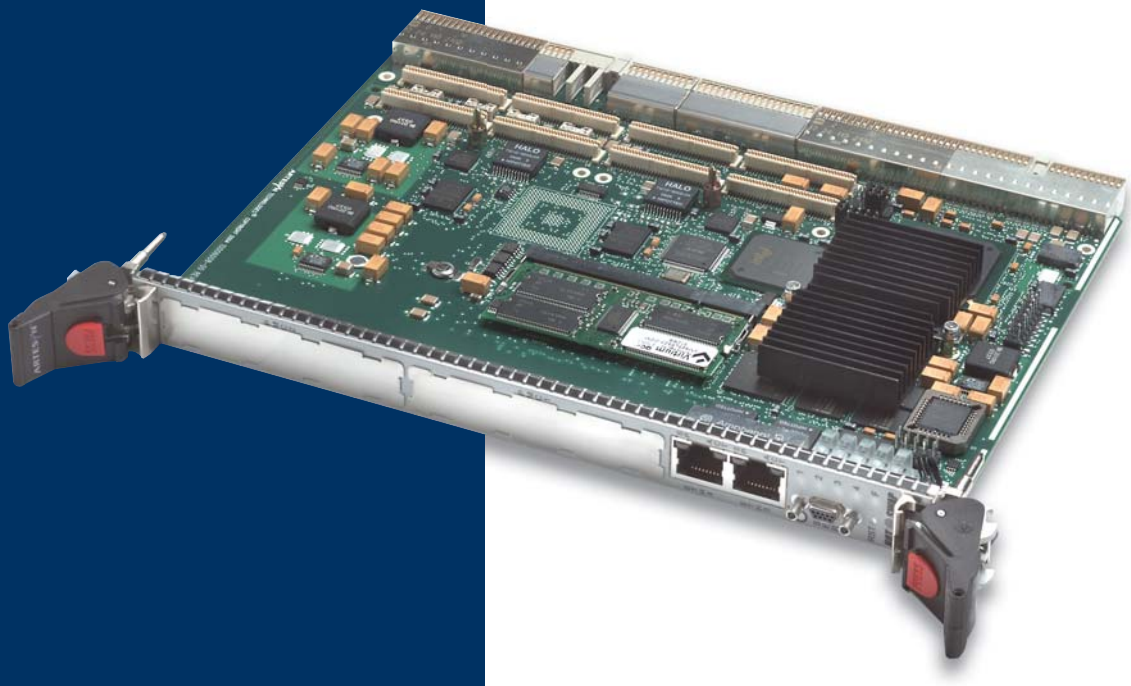
Katana™ 752i

Real-Time Processing Blade



- PowerPC 750GX processor running at 1GHz
- cPSB Node (PICMG 2.16, Dual 1000 BaseT)
- User selectable cPCI system controller or embedded peripheral functionality
- Dual PMC / PTMC expansion sites
- System Management Bus (PICMG 2.9) with IPMI peripheral controller
- Up to 2 GByte DDR ECC SDRAM in SODIMM package
- Up to 128MB Linear Flash
- Real-Time Clock with supercap backup
- Dual 10/100/1000 BaseT Ethernet with front bezel access
- VxWorks and CG Linux support
- Quality assured by over 30 years of design and ISO-9001 certification

Artesyn's Katana752i is a real-time processing blade in a standard sing-slot CompactPCI Packet Switching Backplane (cPSB) formfactor. It's powered by a PowerPC 750GX processor and a full complement of I/O for communications applications. The combination of this powerful on-card functionality with the flexibility of dual PMC/PTMC sites makes the board ideal for a variety of functions including signaling blade, media gateway blade, real-time control blade, traffic processor, or line-card.

Communications applications are rapidly converging on packet-based switch fabric system architectures. Katana752i's design is ideally suited to the packet paradigm. To support this paradigm, the blade is fully compliant with the PICMG 2.16 cPSB specification. While technology is rapidly converging on packet networks for the majority of data transport, many applications require systems to link more traditional TDM-based networks to the packet networks. To help facilitate this, the Katana752i supports an optional timeslot interchanger to interconnect the PTMC expansion sites with a local CTbus as well as provide an interface to the H.110 system backplane CTbus.

As systems designs become more complex, system management becomes more important. Katana752i implements a System Management Bus (SMB). It also fully supports the Intelligent Platform Management Interface (IPMI or PICMG 2.9) for standards-based system management.

Using an off-the-shelf processor blade saves you time-to-market by allowing you to focus your engineering efforts on the key value-add portions of the system without spending time and effort on the processor design and testing. A processor subsystem blade also lowers you lifetime cost of ownership by providing an easy upgrade path, and protecting you from obsolescence issues.

Katana is a Japanese word for 'sword'. Artesyn's Katana family of processor blades embodies the power and swiftness of this sword.

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Katana™ 752i

technical specifications

PROCESSOR

PowerPC 750GX processor running at 1GHz

- 64-bit data bus
- 32-bit address bus
- 32K I / 32K D L1 Cache
- 1MB L2 Cache with ECC

SYSTEM CONTROLLER

Marvell Discovery III system controller

- PCI bridge
- 2 GbE interfaces to 2.16 backplane
- Dual 10/100/1000 BaseTx debug interface (front bezel access)
- I²C interface
- SDRAM controller
- Four timer/counters, each selectable as a counter or timer
- 32-bit watchdog timer
- 4 IDMA Controllers
- 2 baud rate generators
- Reset

MEMORY

SDRAM

- 256, 512 MByte, 1or 2 GByte DDR SDRAM with Error Checking and Correction (ECC)
- Dual data rate operation clocked at 133MHz
- Modular and upgradeable 200-pin SODIMM packaging

USER Flash

- 32, 64 or 128 MByte Flash configurations
- True Flash File System™ (TFFS) support under VxWorks

Serial EEPROM

- 64KB Serial EEPROM on I²C bus for configuration data

EXPANSION

PMC/PTMC

- PCI Mezzanine Card (PMC) interface complies with IEEE 1386 and 1386.1
- Two PMC sites PCI 2.2 compliant, 32-bit, 33/66 MHz PCI Bus interface
- PMC site can be configured as a Monarch with a ProcessorPMC module installed
- 64 user I/O pins routed to cPCI J3 and J5
- Optional RMII / PHY support from Jx3 connector to cPCI J5 connector
- PCI Telephony Mezzanine Card (PTMC) compliant
- Optional T8110 Timeslot Interchanger to route CTBus between PTMC sites and the backplane H.110 TDM bus.
- CTBus clocks routed from J4 for systems with H.110 telecom clocks
- Accepts 2 single-wide or 1 double-wide PMC module

BLADE I/O

Ethernet

- Embedded System Area Network (ESAN)
  - CompactPCI Packet Switching Backplane (cPSB – PICMG 2.16) Peripheral node/dual link
  - Dual 10/100/1000BaseT interfaces via on-card Marvell Discovery III System Controller
- Single 10/100BaseT maintenance Ethernet port via front bezel

PCI

- User-selectable cPCI system controller or embedded peripheral functionality
- Local PCI 2.2 bus between PMC sites and Discovery III system controller
- 32-bit operation
- 33/66MHz operation

Serial I/O

- One console serial port
- EIA-232 signal levels
- Micro-DB9 connector with front access

JTAG/COP

- JTAG/COP debug interface
  - IEEE 1149.1 compatible
  - Access to internal processor scan chains for debug
  - Serial connection to processor core for emulator support
- JTAG/COP interface for on-card PLDs

I²C

- Master/Slave I²C bus connecting
  - Serial EEPROMs
  - Real-time clock device
  - IPMI controller and sensors
  - Processor I²C interface to IPMI connector

IPMI

- System Management Bus (SMB) CompactPCI System Management Specification (PICMG 2.9)
- Supports Intelligent Platform Management Interface (IPMI) Version 1.5 and Intelligent Platform Management Bus (IPMB) Version 1.0
- Driven by Zircon Peripheral Management device from QLogic
  - Remote shutdown
  - Remote reset
  - Payload Power Monitor
  - Temperature monitor
  - FRU data structure

PTMC

- CTbus TDM channels are optionally routed to/from PTMC sites, through a timeslot interchanger to/from the J4 H.110 CTbus.
- CTbus clocks are routed from J4 H.110 CTbus to the PMC sites

LEDs AND SWITCHES

- 4 development user-programmable surface mount LEDs
- Front panel Ethernet Activity and Link LEDs
- cPSB1 and cPSB2 Activity and Link front panel LEDs
- Power/fault front panel status LEDs
- Hot Swap front panel LED
- Recessed front panel rest switch

PHYSICAL CHARACTERISTICS

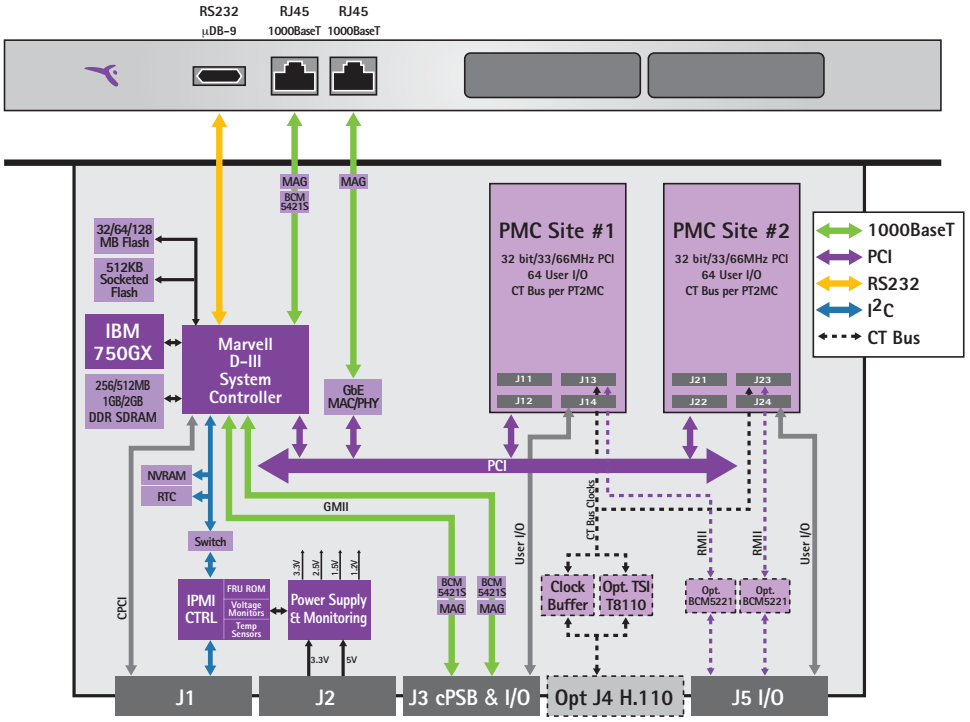
- cPSB PICMG 2.16 formfactor
- Dimensions: 9.19″ W x 6.30″ D x <0.80″ H (233.25mm x 160mm x <20.32mm)
- Power requirements: 10W estimated typical
- Operating range: 0° to 55° C, 5-95% relative humidity (non-condensing) to meet or exceed NEBS Telcordia GR-63 specification.

AGENCY COMPLIANCE

- UL/CSA/EN60950
- NEBS: Applicable sections of Telcordia GR-63 and GR-1089
- FCC Part 15, (US)/ ICES 003, (Canada)
- EN 55022
- EN 55024
- EN 300 386

SOFTWARE SUPPORT

- PPCBoot bootloader with power-on self test
- Carrier Grade Linux support from MontaVista
- Board support package for VxWorks 5.5/Tornado 2.2
- Reference kernel port for GPL Linux



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Empowering Communications

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9/04

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