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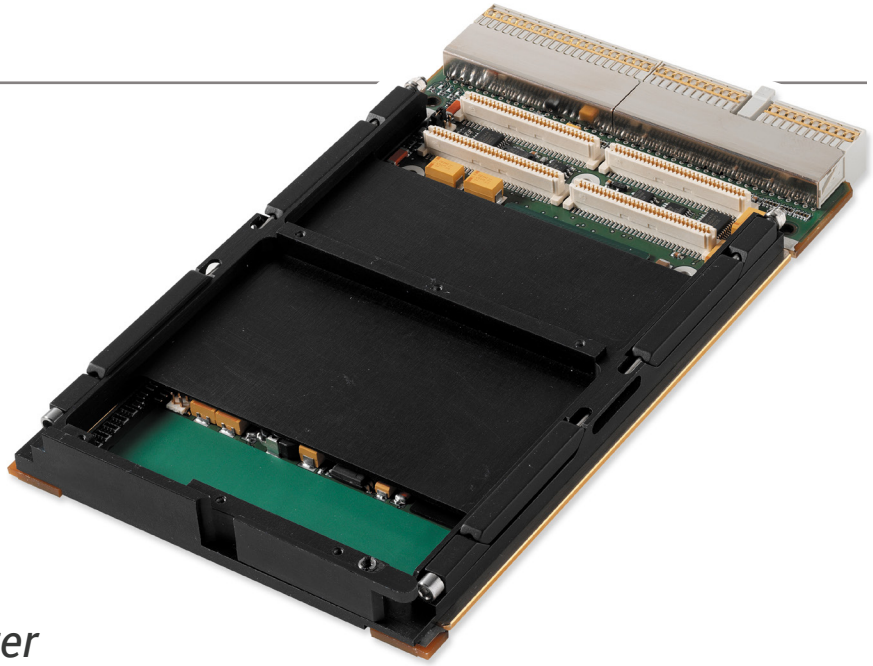
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Find the *Abaco Systems IMP2A-1211402* at our website: *Click HERE*



IMP2A

3U CPCI Single Board Computer

The IMP2A is the latest member of the Abaco Embedded Systems family of PowerPact 3U CompactPCI single board computers. Designed for demanding applications with restrictive dimensional requirements, the IMP2A packs a powerful single board computer (SBC) into an extremely space-efficient 3U form factor.

The IMP2A's impressive processing core is based around a Freescale 7448 PowerPC processor and the very latest Marvell Discovery 3 Integrated System Controller which combines high bandwidth memory control and PCI bridging with an array of communication peripherals, including serial and Ethernet ports, all on a single chip.

A range of I/O options is offered including up to two Gigabit Ethernet channels, up to 12 bits of discrete digital I/O, and up to two serial channels, software programmable as RS232/422 or 485.

The IMP2A is configured with 46 pins of PMC I/O to J2.

Available in five air- and conduction cooled build levels, the IMP2A is fully supported by comprehensive Deployed Test Software (BIT and BCS) and support for popular real time operating systems including VxWorks, Integrity and LynxOS.

FEATURES:

- CompactPCI system slot or peripheral slot
- Freescale 7448 processor
- Marvell Discovery 3 Integrated System Controller
- Up to 512 Mbytes of DDR SDRAM
- 128 MBytes user Flash memory
- One PMC Site (PCI-X 133MHz)
- Two 10/100/1000BaseT ports
- Two UART ports (RS232/422/485)
- Air- and conduction cooled
- Comprehensive Deployed Test software
- Comprehensive operating system support

abaco SYSTEMS

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IMP2A *3U CPCI Single Board Computer*

Specifications

Processor Node
- MPC7448 at up to 1.4GHz
- 1 MByte L2 on-chip cache

DDR SDRAM
- Up to 512 MB DDR SDRAM

Flash Memory
- 128 MBytes Flash memory (8 MBytes allocated to boot Flash)
- Write-protection options

CompactPCI Interface
- 32-bit 66Mhz CompactPCI Bus 3.3V (5V tolerant)

Gigabit Ethernet
- Up to two 10/100/1000 Base-T ports to J2

Serial I/O
- Up to two UART ports to J2
- Software configurable as RS232/422/485

General-Purpose I/O
- Up to 12 GPIO lines each capable of generating an interrupt

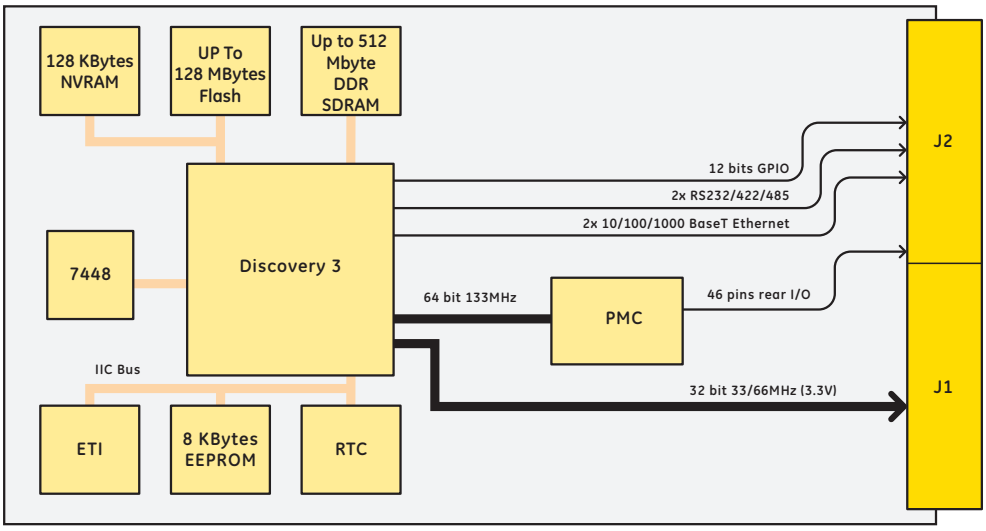
PMC Extension Slots
- One IEEE 1386/1386.1-2001 compatible extension slots
- PMC - up to 64bit / 133MhzPCI-X
- 46 I/O pins to J2

NVRAM / Real-Time Clock / Watchdog / ETI
- 128 KBytes non-volatile RAM with autostore
- Real-time clock with 1 second resolution
- Watchdog timer (programmable 32-bit timer)
- Elapsed time indicator (records cycles and on-time)

Temperature Sensors
- CPU die and ambient temperature

Power Requirements
- +5 V and 3.3v - required
- ±12V - only if required by mounted PMC module

Block diagram



Ordering information

	Level 1	Level 2	Level 3	Level 4	Level 5
Cooling Method	Convection	Convection	Convection	Conduction	Conduction
Conformal Coat	Optional	Standard	Standard	Standard	Standard
High / low temp operational	0 / 55°C (300 ft/m)	-20 / +65°C (300 ft/m)	-40 / +75°C (600 ft/m)	-40 / +75°C at cold wall	-40 / +85°C at cold wall
Random Vibration	0.002g2/Hz*	0.002g2/Hz*	0.04g2/Hz**	0.1g2/Hz**	0.1g2/Hz**
Shock	20g***	20g***	20g***	40g***	40g***

* from 10-2000Hz
** with a flat response to1000Hz. 6dB/Oct roll-off from 1000-2000Hz
*** Pk Sawtooth 11mSec Duration

WE INNOVATE. WE DELIVER. YOU SUCCEED.

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Locate an Abaco Systems Sales Representative visit: abaco.com/products/sales

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PowerPact™3 CompactPCI

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We buy equipment

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