# *Development & System Boards*

## *Board Suppliers*

- Algorithmics
- Creative Electronics
- Heurikon
- IDT
- Lockheed Sanders
- LSI
- Nanotek
- Omnibyte
- Radstone Technology
- RISQ Modular
- Vigilant Technologies

# Development & System Boards

## Development/ Evaluation Boards

### Algorithmics

**P–4000i**

MIPS® Chips Supported: R4200$^{TM}$, R4600, R4400$^{TM}$PC (5V or 3.3V)

Features:

- Big and Fast for easy prototyping
- Open design with available schematics
- Supports Leading RTOS's
- Development Board

Includes/Options:

- 2–96 MB memory
- Ethernet or RS232 download
- Flexible 64–bit daughter board interface
- PMON PROM monitor supports 64–bit development, available as free source

Contact:

Dominic Sweetman
3 Drayton Park, London N5 1NU, England
44–71–700–3301, 44–71–700–3400 FAX, sales@algor.co.uk

# Development & System Boards

## VME

### Creative Electronics

**RAID 8235, 8240**

MIPS® Chips Supported: R3000®, R4000®

Features:
- VME/VSB Master/Slave Processor Boards
- Ethernet, SCSI, 16/32 MB DRAM, FIFO, DMA, etc.
- RAID 8240 features 6U 133Mhz Processor boards,
  PCI Interface, up to 128 Mbytes DRAM, up to 2Mbytes flash EPROM, 2X16 Kbytes first level cache, 512 kbytes second level cache

Other Items:
- R3000 Based I/O board with PCM, 1553, ARINC 429/629,
  HIPPI, AD/DA, GPIB, Ethernet, OPTO I/Os etc.

Contact:

Mr. Christian Pugin
70, Route du Pont–Butin, Case Postale 107
1213 Petit–Lancy 1, Switzerland
(41) 22 792 57 45, FAX (41) 22 792 57 48
email: ces@lancy.ces.ch

# Development & System Boards

## VME

### Heurikon

**HKMIPS/V3500, Laguna, Malibu**

MIPS® Chips Supported: R4200™/VR4600, VR3600, R3081™E

Features:
- 8, 16, 32, 64 or 128 Mbytes DRAM
- Full Master/Slave VME interface
- Up to 1Mbyte EPROM
- Up to 2 Mbytes Flash EPROM for VR4200/VR4600 board
- Two or four RS–232 serial ports
- Ethernet and SCSI II Interfaces
- In–house support for VxWorks operating system

Contact:

Heurikon Corporation
8310 Excelsior Drive, Madison, WI 53717
608–831–0900, 608–831–4249 FAX, info@heurikon.com

# Development & System Boards

## Development/ Evaluation Boards

### IDT

**IDT79S341, IDT79S381, IDT79S385, IDT79S460 Evaluation Kits**

MIPS® Chips Supported: R3041™, R3051™, R3052™, R3071™, R3081™, R4400™PC and R4600

Features:

- IDT79S341 features complete low–cost 20MHz RISC evaluation system for the R3041
- IDT79S381 features 33MHz RISC system board for R3081, R3071, R3052, R3051, R3041
- IDT79S385 features 25MHz RISC evaluation system for R3052
- IDT79S460 features complete RISC Development System for R4600 or R4400PC at 100, 133 or 150 MHz

Includes/Options:

- Most Evaluation Kits include IDT/c™ GNU based compiler, IDT's System Integration Manager (IDT/sim™) in EPROM, board schematics, PAL equations, utilities, and HP16500A Logic Analyzer disassembly software

Contact:

Integrated Device Technology
2975 Stender Way, Santa Clara, CA 95054–3090
800–345–7015, 408–492–8674 FAX



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# Development & System Boards

## VME

### Lockheed–Sanders

**Star MVP II and Star MVP**

MIPS® Chips Supported: R4400™PC/R4600PC, R3000®/R3010®FP

Features:

- Single Board Performance: 20–90+ VAX MIPs
- 16–128KB Instruction/Data Caches
- 8–64MB DRAM Memory, 4MB Flash, 4KB NVRAM
- Interfaces: RS–232/422/423, Dual 1553, Ethernet, SCSI
- VMEbus Master/Slave Interface with D64, D32, D16 modes
- VME–6U–160 Board Format (0.65 pitch, 0.8 with Daughter card)
- Military, Rugged, Commercial Versions
- OS: C–VxWorks, Ada–Verdix/Alsys
- Tools: Assembler, Linker, Debugger, Library Utilities
- Test: BIT, Fault–logging, JTAG

Options:

- Daughter–card Expansion Mezzanine (for custom I/O)
- VME–3U–160 Board Format

Contact:

George Woodruff
Lockheed Sanders, 95 Canal Street, Nashua, NH 03061
(603) 885–3601
(603) 885–7264 FAX

*Development Systems & Boards*

## LSI

**Pocket Rocket, Turbo Rocket, RacerXc, ATMizer™ R/T**

MIPS® Chips Supported: LR33000, LR33020, LR33050, LR33120, LR33300, LR33310, ATMizer™ chip

Features:

- 1–4 MB DRAM,128–256 KB PROM in Pocket Rocket
- 8MB DRAM,8MB SDRAM,128–2KB PROM in Turbo Rocket
- 8MB DRAM, 128–512KB PROM, 8KB NVRAM in RacerXc
- Full ATM product development platform using ATMizer R/T
- 2 Serial Ports in all boards
- Ethernet Port in Racer Xc and Turbo Rocket
- PS2 Keyboard Port and Color Video Interface in RacerXc
- PROM Monitor Included in all boards
- 96–pin DIN connector for direct access to processor in Pocket Rocket

Includes/Options:

- PROM source
- C Run–time Function Library

Contact:

LSI, 1551 McCarthy Blvd, Milpitas, CA 95035
408–433–8000

# Development & System Boards

## Futurebus Processor Module

## Nanotek

**NR3000–1 and NR4600–1**

MIPS® Chips Supported: R3000®/R3010®FP, R3500, R4600

Features: NR3000–1

- Futurebus+ Interface
- 64 KB I–Cache, 64 KB D–Cache
- 8 MB DRAM, up to 2 MB Flash EPROM
- Mezzanine slot for add–on I/O boards
- 2 Serial I/O, 2 timers, Realtime clock with battery backed RAM
- PROM Monitor

NR4600–1

- True 64–bit CPU w/100 MHz clock and 64–bit FPU
- Full 64–bit Futurebus+ data Interface
- On–board 16 KB I–Cache, On–board 16 KB D–Cache
- 2, 8, or 32 MB DRAM, up to 2MB Flash EPROM
- Mezzanine slot for add–on I/O boards
- 2 serial I/O, 4 16–bit programmable timers, Realtime clock w/battery backed RAM

Contact:

Nanotek, Inc.
3890 E. Sunnyside Rd., Idaho Falls, ID 83406
1–800–786–8961, 208–523–4468, 208–523–4469 FAX

# Development & System Boards

## VME

### Omnibyte
**PULSAR 3000**

MIPS® Chips Supported: R3000®A CPU, R3010®A FPC

Features:
- 32–128KB I Cache & 32–128KB D Cache
- Up to 32 MBB Dual Ported DRAM w/ Parity, 4 ROM Sockets
- Intelligent SCSI & Ethernet Controllers, 4 Serial Ports

Includes/Options
- IEEE1014 – VMEbus based (A32/D32)
- Uses VIC068 & VAC068 Interface chips w/ System Controller functions
- 6U x 160 form factor (2 slot), RT Calendar clock, NV RAM
- 4 R3020 Write Buffers

Contact:
- Omnibyte Corporation
- 800–638–5022 (708–231–6880 in IL)

# Development & System Boards

## VME

### Radstone
R3000

MIPS® Chips Supported: R3000® / R3010®FP

Features:
- 4–16 MB DRAM, 16 KB I–Cache, 4 KB D–Cache
- Up to 1 MB EPROM
- Ethernet, SCSI–2
- 4 Serial ports, Clock Timer, Programmable Timer, Real–time Clock
- VME interface
- PROM Monitor

Contact:

Radstone Technology
50 Craig Road, Montvale, NJ 07645
800–368–2738, 201–391–2899



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# Development & System Boards

## PC ISA/EISA & VME

### RISQ Modular

**Imaging, Networking & Simulation Boards**

**MIPS® Chips Supported:**
R4600 Orion, R4200™, R3081™, R3051™

**Features:**
ISA, EISA, VME64, VSB, busless, custom
8/16/32/64/128 MB 2–way interleaved memory
EPROM, FLASH, NVRAM, watchdog, real–time clock, counter/timers, serial ports, parallel ports
Ethernet, SCSI 1/2
Digital camera port, HDLC/SDLC, X.25, Frame–relay

**Contact:**
Nageen Sharma
39899 Balentine Dr., Ste 375, Newark, CA 94560
510–490–0732, 510–490–7225 FAX

## PC EISA

### Vigilant Technologies

**SlotSaver 3000**

MIPS® Chips Supported: IDT 3051™ or 3081™ @ 32 MHz

Features:

- Multifunction I/O Coprocessor
- EISA Bus, Standard PC card Form Factor
- 2–8 MB DRAM
- 256 KB or 1 MB SRAM with 8 KB dual ported SRAM to PC
- Supports four on–board IndustryPack I/O modules through 16MByte/second local bus

Contact:


Vigilant Technologies
4700 SW 51st St., Suite 204, Davie, FL 33314
305–797–9277, 305–797–9065 FAX