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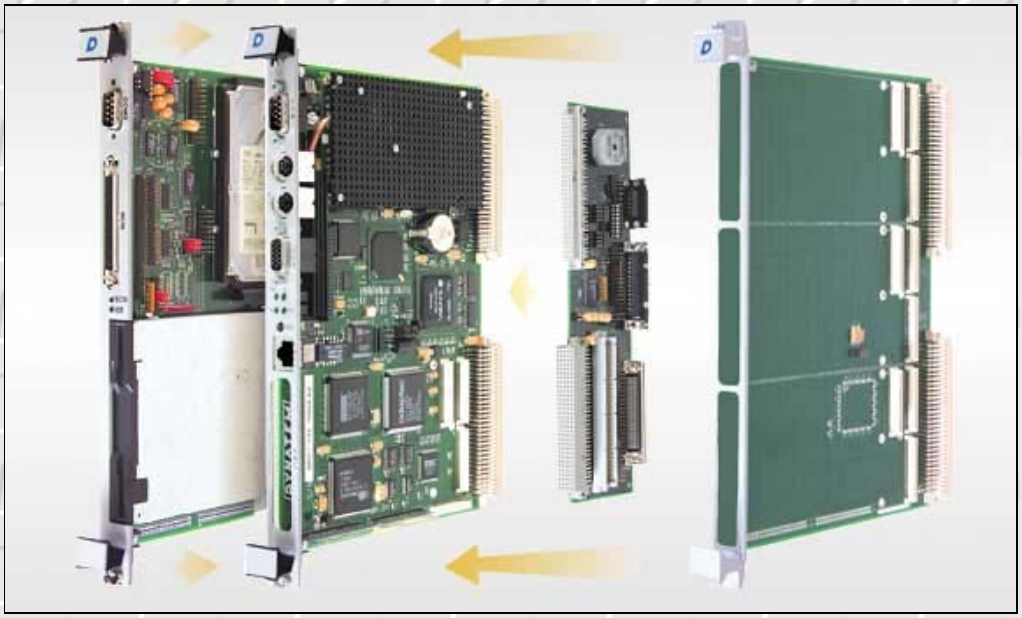
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Find the *Dynatem DRC1xLG / DRC1TBF* at our website: *Click HERE*



DRC1TB	DRC1	DRC1PTB	XPMC3
Transition Board with floppy, IDE hard drive and front panel I/O for two-slot or three slot configurations	DRC1 Pentium II VME Single Board Computer with up to 160 MB on-board bootable IDE Flash. Can be used in single-slot, two-slot or three-slot configurations	I/O breakout board for single slot configuration. Provides expansion behind backplane for SCSI 2, LPT1, COM2 and PMC I/O	Provides 3 PMC expansion slots for two-slot or three slot configurations. All PMC I/O is available from the front panel or through P2 (when supported by **PMC card**)

Now available in lower priced versions without VMEbus interface or SCSI-2

DRC1 [Ordering Info]
Rugged Pentium II VME Single Board Computer

Features:

Processor

- Intel Pentium II processor up to 400 MHz (300 MHz Celeron also available)
- Special heat sink using heat pipe technology
- Built-in FPU and 8 KB of data cache and 8 KB of code cache
- 64 bit data path

Industrial Grade

- Extended temperature range of -40° to +85° Celsius available
- Shock and vibration immunity to MIL-STD-901D

Chipset

- Intel's 82443BX North Bridge and PIIX4 PCI I/O ISA/IDE Xcelerator with built-in RTC

SDRAM Memory

- 64 MB or 128 MB of surface mount SDRAM

Cache Memory

- Pipelined Burst Cache on Mobile Module

Flash Memory

- Up to 160 MB on-board IDE Flash in a single slot configuration
- AMI BIOS can treat flash as bootable drive

SCSI (optional)

- SCSI-2 Fast/Wide controller on the PCI Bus
- Double Speed 20 MHz data transfers up to 40 MBytes/sec
- Adaptec AIC-7880. Routed through P2 and out of SCSI-2 connector on transition board's front panel or behind the backplane

Ethernet

- Ethernet 10/100 Mbit with 10/100BaseTX
- DEC Semiconductor 21140A

Video

- SVGA Video, 1280 x 1024 x 256 color
- Flat Panel support 1024 x 768 x 14"
- Cirrus Logic Nordic CL-GD7548
- 2 MB VRAM
- 15-pin VGA connector on front panel

VMEbus

- A32 D64 (MBLT) master and slave modes supported. Slot 1 controller with arbiter. Built-in FIFO's for write posting
- Maximum data transfer rates of over 60 MBytes/second
- Tundra Universe II

Standard PC I/O

- Ultra IDE fixed disk controller
- Floppy drive controller with support for 2.88 MB & 1.44MB drives
- Dual Serial Ports individually configurable as RS232 or RS4xx, 16550 compatible on DB9 connectors
- Single Parallel Port, bi-directional capability
- Keyboard port, PS/2 compatible
- Mouse port, PS/2 compatible

Front Panel

- VGA, Keyboard, Mouse, Ethernet, COM1 Port, Reset, Status LEDs (Ethernet Link, RX, TX, and System Controller)
- Optional version available with no connector openings

DRC1TB Transition Module (pictured above left)

- Fast/Wide SCSI-2, LVDS LCD, COM2 Port, Parallel I/O, Floppy and Hard Drives

Expansion

- One PMC expansion board with I/O optionally routed out of P2
- As an option, the **XPMC3** PMC expansion module (pictured above on the right) provides three additional PMC positions in the adjacent VME slot

Single-Slot I/O Interface

- For single-slot configurations, the **DRC1PTB** (pictured above) is a rear plug-in module which provides breakout connectors for for P2 I/O including Ultra SCSI, COM2 and LPT1 connectors
- Optional versions also offers interface to PMC I/O routed to P2

For tougher environments, the DRC1 is a VMEbus based PentiumII card that operates in an extended temperature range of -40° to +85° Celsius and can handle greater shock and vibrations due to the absence of socketed components. The DRC1 runs cooler and faster than other Pentium cards by virtue of the Intel Mobile Module (IMM).

The Mobile Module features a TCP style Pentium which employs higher clock speeds while reducing power consumption. This cooler operation in conjunction with extensive heat sinking lends the DRC1 its industrial grade performance. The Mobile Module mechanically fastens to the DRC1 so there will be no added vulnerability to shocks and vibes, and it also offers a compatible upgrade path. Versions based upon the Pentium II IMM are available in speeds up to 400 MHz.

Expansion and I/O

In addition to standard PC I/O (SVGA, mouse, kybd, COM1/2, parallel port), the DRC1 offers 10/100BaseTX, a second IDE port for up to 140 MB of flash, and fast/wide SCSI. One PMC module can be installed for additional I/O or memory. PMC I/O is routed to the DRC1's five row VME64x connector for embedded applications. An optional transition module can provide an IDE hard drive, a floppy drive, a 68 pin ultra SCSI connector, a DB9 for COM2, and an LPT1 connector.

VMEbus Interface

The Tundra Universe II connects the local PCI bus to the VMEbus and is capable of VME64 data transfers. DMA transfers on the PCI bus and block transfers on the VMEbus maximize throughput. Posted write cycles to the VMEbus keep slow DTACK's from bogging down PCI performance. The Universe II corrects a number of problems associated with the Universe, including RMW bugs, and it runs much cooler than the original version.

VMEbus Software Drivers

Dynatem can provide software drivers for many operating systems including Windows NT, Solaris, QNX, VxWorks, pSOS+, linux. Full support for Embedded NT (NTE) and it's real-time extensions (RTX) are also available. These drivers support initial configuration of the interface and a variety of VMEbus transfers from discrete Short I/O to D64 MBLT block transfers.

DRC1/XRC1 Ordering Information

ITEM	PART#	DESCRIPTION
1	DRC1xLGx	DRC1 with 366 MHz Pentium II Intel Mobile Module, 10/100Base-TX, SVGA video, LCD support, BIOS, 2 COM ports, PMC expansion slot, KB, mouse, bi-directional parallel I/O, single slot, with 64 MB SDRAM (66 MHz) and special heat sink. Supports up to 160 MB on-board IDE Flash. Extended temperature range. **This configuration with VMEbus but without SCSI-2 installed.**
2	xxxxJxxx	42 MB Flash for DRC1
3	xxxxMxxx	80 MB Flash for DRC1
4	xxxxNxxx	140 MB Flash for DRC1
5	xxxxOxxx	220 MB Flash for DRC!
6	xxxxxMxx	128 MB SDRAM for DRC1
7	xxxxxxHx	Pentium II 400 MHz
8	xxxxxxxS	With fast/wide SCSI-2
9	XRC1xxxx	Without VMEbus interface

Accessories

ITEM	PART#	DESCRIPTION
1	DRC1TBxx	Transition board for the DPC1 which provides SCSI-2 connector, COM2 connector (DB9), LPT1 connector (26-pin dual header), speaker, and flat panel interface
2	DRC1TBFx	As above, w/1.44 MByte 3.5" Floppy Drive
3	DRC1TBx4	As above, w/4 GByte IDE Hard Drive
4	DRC1TBx8	As above, w/8 GByte IDE Hard Drive
5	DRC1PTBN	Rear Pug-in peripheral transition board for the DRC1 with connectors for Ultra SCSI, COM2 and LPT1
6	DRC1PTB	As above with PMC output connector
7	DxC3UTB	Special transition board which routes IDE and floppy to P2, also routes COM2 to front panel. With on-board speaker. Requires modification to DRC1 and requires two VMEslots with DRC1.
8	XPMC3	Carrier for 3 **PMC modules** (requires two 6U VME slots with DRC1)

Pentium Software (BSP's listed below include VMEbus interface drivers)

ITEM	PART#	DESCRIPTION

1	DSW-500	VxWorks Tornado BSP (one time charge)
2	DSW-700	Drive VME, a high performance VME to Windows/NT Systems Software Link (Development version)
3	DSW-701	Run-time copy of Drive VME
4	DSW-WINNT	Windows NT Version 4.0 (standard Workstation license, requires DriveVME for VMEbus drivers)
5	DSW-FLASH	Special Installation of Windows NT Workstation and Drive VME into IDE Flash module
6	DSW-900	BSP for QNX (includes BSP support)
7	DSW-A00	BSP for Solaris
8	DSW-B00	BSP for Linux (includes Redhat 6.1 operating system)
9	ETNT40-10FW	Embedded NT Toolkit with 10 Class 2 licenses (class 2 is a "headed" license with video support. For VMEbus interface drivers, DriveVME is also required)
10	TLNT4-10FW	Embedded NT 10 pack Class 2 licenses

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