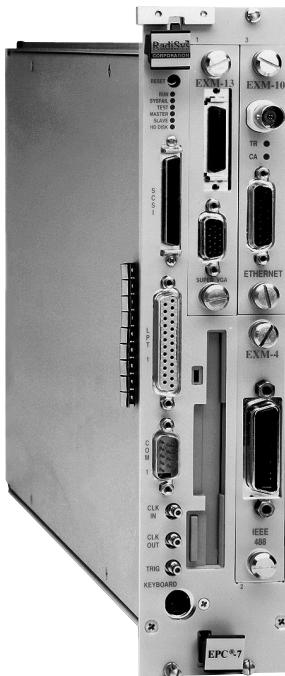

VXI C-size PC embedded controller, 100 MHz HP RADEPC7B

Technical Specifications

- **100 MHz Intel 486DX Processor**
- **EPConnect includes SICL/VISA support**
- **HP VEE for Windows development bundle**
- **HP RADEPC7B supports C-SCPI on LynxOS**
- **VXI*plug&play*-compatible with WIN / WIN95 / WIN NT**



Description

The HP RADEPC7B is a **C-size, 2-slot, message-based commander** and can be used in either the HP E1401B or the HP E1421B Mainframe. Embedding the controller in the VXI chassis allows direct computer access of other VXI devices, system memory, and triggers as though they were part of the controller hardware. So, you don't need a separate command module.

The HP RADEPC7B accesses the VXIbus with a full 32-bit wide data path (D32) for highest performance. This module has optional EXM expander modules, and an optional AT bus expansion module to add an AT-compatible card (i.e., an extra RS-232 interface). If you need an alternative data path into and out of your VXI system, LAN connection is an easy-to-order option on the HP RADEPC7B. For predictable high performance in mission-critical real-time applications, use the Lynx Real-Time operating system version 2.2.1 and C-SCPI with the HP RADEPC7B. The combination of Lynx and C-SCPI is the only development environment offered on the Lynx Real-Time Operating System.

Refer to the HP Website directory of addresses (URLs) for instrument driver availability and downloading instructions.

Included with this product are 100 MHz processor, 500 MB disk, 3.5" floppy drive, 8 MB RAM, SCSI disk drive, RS-232 and parallel ports, 2 EXM expansion slots, SVGA I/F, 1 MB VRAM, keyboard, and mouse.

Lynx Operating System

For predictable high performance in mission-critical real-time applications, use the Lynx Real-Time operating system version 2.2.1 and C-SCPI with the HP RADEPC7B. The combination of Lynx and C-SCPI is the only development environment offered on the Lynx Real-Time Operating System.

EPConnect for Fast Development

- EPConnect Development System includes drivers and software tools that dramatically reduce the effort required to develop and integrate VXI systems. EPConnect includes SICL/VISA, which has the drivers for communication with devices on the VXIbus and the optional HP-IB EXM module.
- Start Up Resource Manager (SURM) is included with EPConnect. It configures the VXIbus system at powerup (including configuring all non-VXIbus devices in the system, too).
- Library interface included as part of EPConnect provides applications with run-time access to all the system configuration information.
- SICL/VISA are supported on Windows 3.1 and 95
- SICL is supported on DOS, LynxOS, and Windows 3.1
- HP VEE is supported on the MS Windows environment in the HP RADEPC7B

Note: The HP RADEPC7B embedded controller is manufactured by RADISys Corporation and is distributed and supported through Hewlett-Packard Co.

Specifications

EMC Specifications:	Meets CISPR 11, 1990/EN 55011 (1991): Group 1, Class A
Shock:	
Operating:	5 g 11 ms, half sine pulse
Non-operating:	10 g 11 ms, half sine pulse
Vibration:	
Operating:	0.015-in P-P, 0.6 g max acceleration over 5-500 Hz
Non-operating:	0.030-in P-P, 2 g max acceleration over 5-500 Hz
Environmental-temperature:	
Operating:	5 to 45 °C
Non-operating:	-40 to 70 °C
Environmental-max. altitude:	
Operating:	10,000 ft
Non-operating:	40,000 ft
Environmental-rel. humidity:	
Operating:	20 to 80%
Non-operating:	5 to 95%

General

Processor:	Intel 486 DX, DX4
Clock speed:	100 MHz

Performance:	
MIPS:	14.4/24
MFLOPS:	n/a
SPECmark 89:	18.2
SPEC int92:	30.1
SPEC fp92:	n/a
X11 Xmark 93:	n/a
SPECrate int92:	n/a
SPECrate fp92:	n/a
Main memory:	8-64 MB
Built-in interfaces:	RS-232, HP Parallel, SCSI SE
Additional interfaces:	Video, Keyboard and Mouse, Trigger I/O, Clock I/O
Optional interfaces:	HP-IB, 2-channel RS-232, 8-channel RS-232, LAN
Expansion slots:	2 EXM
Supported expanders:	2 slot EXM, 1 slot AT Bus
Graphics support:	Color 640x480, 800x600, 1024x768
Internal mass storage:	3.5-in Floppy, 500 MB Hard Drive
O.S. (earliest supported):	DOS 5.0, Windows 3.1, Windows 95, LynxOS 2.2.0

VXI Characteristics

VXI device type:	Message-based Controller
Size:	C
Slots:	2
Connectors:	P1/2
Shared memory:	n/a
VXI busses:	Local Bus A, Local Bus C, TTL Trigger Bus, ECL Trigger Bus
C-size compatibility:	Yes

Instrument Drivers

See the HP Website (http://www.hp.com/go/inst_drivers) for driver availability and downloading.

Command module	
firmware:	n/a
Command module	
firmware rev:	n/a
I-SCPI Win 3.1:	Yes
I-SCPI Series 700:	n/a
C-SCPI LynxOS:	Yes
C-SCPI Series 700:	n/a
HP VEE Drivers:	n/a
VXIplug&play Win	
Framework:	Yes
VXIplug&play Win95/NT	
Framework:	Yes
VXIplug&play HP-UX	
Framework:	n/a

Module Current

	I_{PM}	I_{DM}
+5 V:	8	0
+12 V:	1.1	0
-12 V:	0.1	0
+24 V:	0	0
-24 V:	0	0
-5.2 V:	0.3	0
-2 V:	0.12	0

Cooling/Slot

Watts/slot: 25.00
 ΔP mm H₂O: 0.12
Air Flow liter/s: 3.00

Ordering Information

Description	Product No.
VXI C-size PC embedded controller, 100MHz	HP RADEPC7B
RCPhone Support Structure only-blind CPL	HP RADEPC7B H00
Upgrade RAM to 16 MB DRAM total	HP RADEPC7B 116
Upgrade RAM to 32 MB DRAM total	HP RADEPC7B 132
Upgrade RAM to 64 MB DRAM total	HP RADEPC7B 136
AT-bus expander, adds 1 ISA slot, RS-232	HP RADEPC7B 160
2-slot EXM interface expansion module	HP RADEPC7B 162
HP-IB for SICL for Windows and HP VEE	HP RADEPC7B 165
Two-channel RS-232 interface	HP RADEPC7B 167
Ethernet port with Thick and Thin LAN	HP RADEPC7B 170
High speed data acq. development bundle	HP RADEPC7B 801
Pass-Through Response Center Support	HP RADEPC7B 801H00
High speed data acq. run-only bundle	HP RADEPC7B 802
MS-DOS/Win 3.1 Development Bundle	HP RADEPC7B 821
MS-Win95 Development Bundle	HP RADEPC7B 841
3 yr. retrn. to HP to 1 yr. OnSite warr.	HP RADEPC7B W01

Data Subject to Change
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