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TECHNOLOGY GROUP

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with experienced engineers and technicians on staff.

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along with credit for buybacks and trade-ins.

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- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

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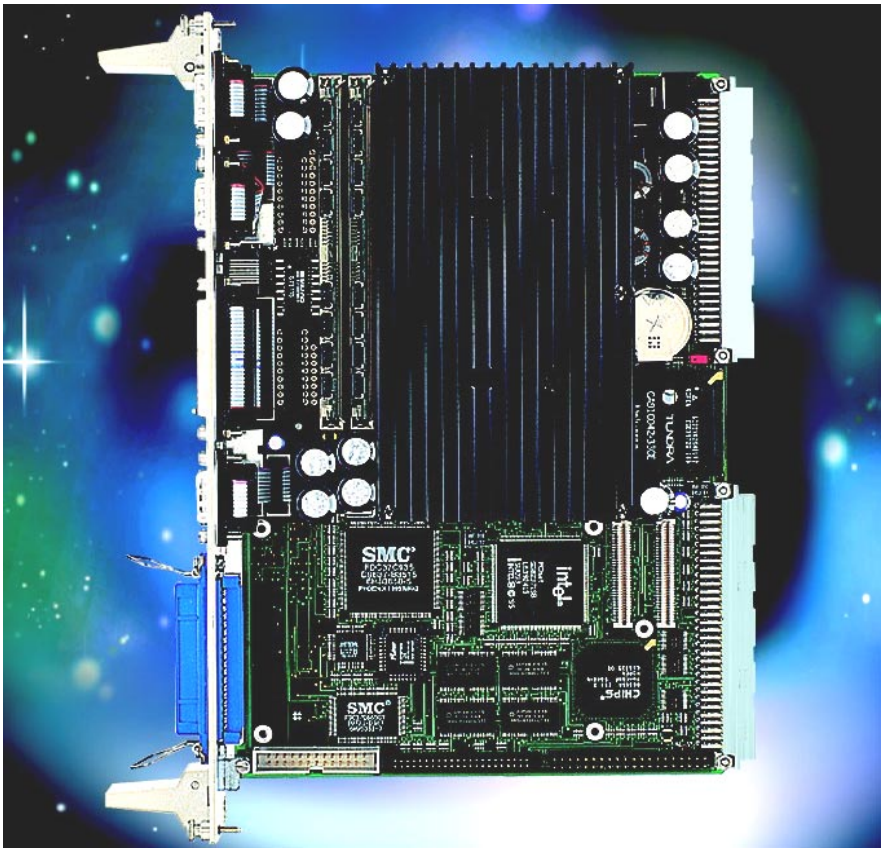
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VP6
Pentium® II All-In-One PC
6U VMEbus Embedded Computer

Features

- High Performance Celeron-A, 300-**400** MHz
- **Ultra compact** all-in-one PC Occupies **2** VMEbus **slots only**
- Windows **NT**, Windows **98**, **QNX**, **VxWorks**, **Solaris**, **MS-DOS**, ...
- **VME-64 - Tunda Universe-2**
- Up to **256 MB EDO RAM** with **ECC**
- **FlashDrive** up to 220 MB
- **VGA** and **LCD** up to **1600x1200**
- **2(4) MB** high speed **SDRAM**
- **Fast+ Ethernet**
- **Wide SCSI** up to 40 MB/sec
- PCIbus enhanced **IDE**
- **PMC** extension slot
- **4x serial** I/O with FIFOs RS-232 or **RS-422/485** interf.
- **2x** IEEE 1284 **parallel** ports
- **2x USB**
- **Watchdog**, **NMI ticker**, **temperature sensor**
- Single **+5 volt** supply **only**
- Optional **–40°/+75°C**
- **Custom specific**, **low cost** assembly versions



The *VP6* VMEbus all-in-one 6U single board computer is designed to meet the needs of embedded application developers addressing markets like telecommunication (high bandwidth, broadband data or intelligent network switching), industrial automation, military and aerospace, medical, scientific, and imaging. Supported operating systems are Windows NT, Windows 98, MS-DOS, QNX, VxWorks, Solaris and others.

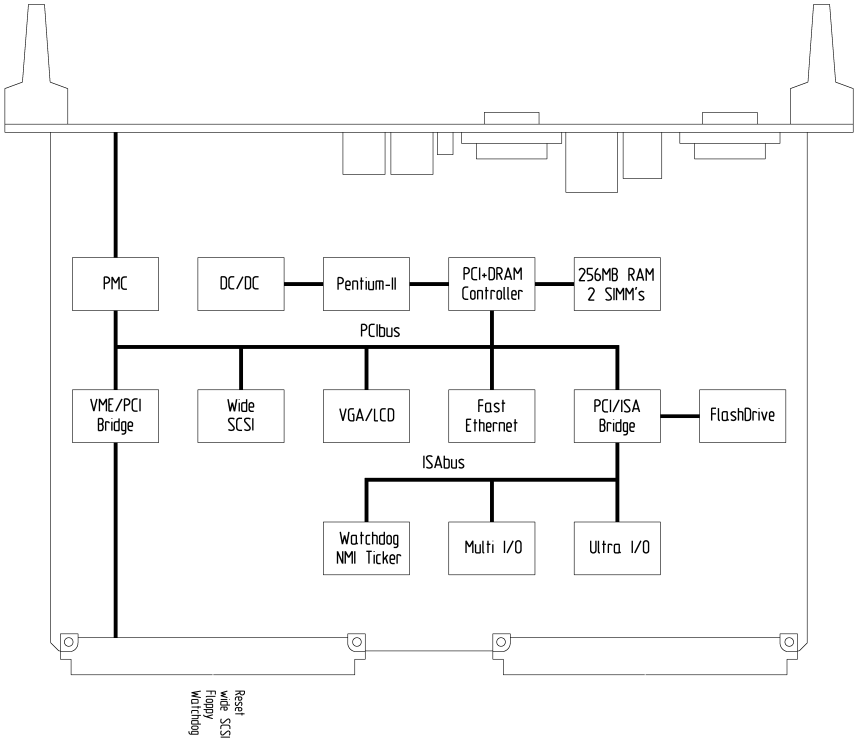
The ultra compact all-in-one concept with flexible processor and RAM configurations, and an impressive array of on-board peripherals includes video interface, Ethernet, SCSI, and PMC extension. This combined with a custom specific assembly service provides optimized price / performance for all kinds of OEM applications.

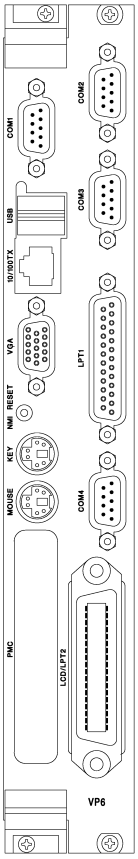
Rugged and military needs are addressed with extended temperature range of up to –40°C to +75°C, and features like LCD supporting a large variety of rugged flat panels.

Special features include four serial channels with flexible RS-232 or RS-422/485 interfacing and single +5V supply.

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Block Diagram and Front Panel I/O





Specifications

VME-64 - Tundra Universe-2
Industry standard CA91C142 Universe-2 PCI to VMEbus controller
60-70 Mbytes/sec transfer rate, full VMEbus system controller
FIFOs for write posting, DMA controller with linked list support
Master/slave transfer modes: BLT, ADOH, RMW, LOCK, RETRY
A32 / A24 / A16 and D64(MBLT) / D32 / D16 / D8

Processor - scaleable
Scaleable processing power with flexible Slot 1 design
Intel Celeron-A: 300, 366, 400 MHz and faster frequencies
Please see price list for latest CPU versions
High efficiency on-board switching regulator (DC/DC)
Fanless cooling with heatsink

Performance		Winstone 98	
CPU	Frequency	Business	High End
Celeron-A	300 MHz	23.1	29.0
	366 MHz	24.7	31.6
	400 MHz	25.4	32.9

(128 MB RAM, 1024x768 256 color, ST34502LW HD)

Chipset - long term availability
Intel 82441/2FX PCI chipset with 82371SB (PIIX3) ISA-bridge
66 MHz system bus
PCI burst mode transfers faster than 110 Mbytes/sec
32-bit wide PCIbus (33 MHz)

Cache	level 1	level 2
Celeron-A	32 KB	128 KB, full speed
Pentium®II	32 KB	512 KB, half speed

Memory – high-speed EDO RAM
2 SIMM sockets for 32 to 256 Mbytes enhanced data out RAM
64-bit wide 60 ns, optional with error correction (ECC)

FlashDrive - up to 220 Mbytes
Optional 4 to 220 Mbytes on-board SanDisk ATA FlashDrive
Higher capacities on request

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VGA and ***LCD*** - 1600 x 1200, 2 MB SDRAM
CT69000: 64-bit Windows accelerator and LCD flat panel interface
On-chip high speed 2 Mbytes synchronous DRAM (83 MHz)
Resolution up to 1600x1200 (60 Hz), 1280x1024 (75 Hz), 135 MHz
1600x1200 (75 Hz, 170 MHz) with 4 Mbytes SDRAM on request
Monochrome and color TFT or STN panel support
Flexible 9, 12, 15, 18 or 24-bit panel interface (also dual-scan)
Up to 16.7 million true colors on STN panels with HiQColor

Fast Ethernet - 10/100 Mbits/sec with DMA
AMD 79C971 controller with PCI local bus DMA
10BaseT and 100BaseTX auto-negotiation interface

Wide-SCSI - up to 40 Mbytes/sec
53C875 controller with PCI local bus DMA
Active low power termination on-board

EIDE - with PCIbus DMA, 22 Mbytes/sec
PCIbus enhanced IDE with PIO mode 4 and bus master IDE
32 Byte data buffer for fast PCIbus burst transfers
2 devices supported, on-board FlashDisk or 2.5" hard disk

PMC Extension Slot
32-bit PCIbus interface with front panel I/O

4x Serial I/O - RS-232 and RS-422/485
Four async. 16550 compatible full duplex serial channels
High-speed transfer up to 115.2 kbaud with 16 byte FIFOs
COM 1+2 user selectable RS-232 or RS-422/485 interface
COM 3+4 with RS-232 interface, RS-422 on request

2x Parallel Port
Two bi-directional, IEEE 1284 compatible enhanced parallel ports (including EPP and ECP) for printer or general purpose I/O

Floppy	One channel 3.5" floppy drive controller 720 KB and 1.44 MB
2x USB	Two 12 Mbits/sec universal serial bus channels
Keyboard	PS/2 compatible, separate front connector
Mouse	PS/2 compatible, separate front connector
Real-time clock	RTC 146818 compatible, on-board Li-battery
CMOS RAM	114 bytes non-volatile CMOS RAM
EEPROM	2 kbit serial EEPROM for non volatile user data
Watchdog	Activates reset under software control (550 ms)
Temp. Sensor	SW readable from –55°C to +125°C, 0.5°C increments
NMI-Ticker	User programmable NMI timer 0.3 to 18 ms for real-time applications
LED	Front panel LED (red) user programmable

BIOS Features
Award Power BIOS, in-system programmable Flash ROM
CPU, memory and IDE auto-detection/selection
Integrated VGA, Ethernet and SCSI BIOS
Supports various LCD panels (see www. for detailed information)
Password protection, BIOSpost, system and video BIOS shadowing
Extensive setup with remappable serial/parallel ports
Diskless, keyboardless and videoless (setup via COM) operation

Front and Rear I/O

Function	Front I/O	On-board I/O	Rear I/O
VGA	HD-15	-	-
10/100BaseTX	RJ-45	-	-
PMC slot	yes	-	-
Keyboard	mini-DIN	-	-
Mouse	mini-DIN	-	-
2x USB	2x USB	-	-
Reset	switch	-	yes
LED	LED	-	-
COM 1	D-09	-	-
COM 2-4	3x D09	3x 10-pin	-
LPT 1	D-25	26-pin	-
LPT 2	(36-pin)	26-pin	-
LCD	36-pin	40-pin	-
Speaker	-	speaker	-
EIDE	-	44-pin, 2.0 mm FlashDisk/ 2.5" HD	-
Wide SCSI	-	-	50-pin, 68-pin
Floppy	-	-	34-pin, 26-pin
Watchdog	-	-	yes

The pinouts of the transition module connectors (rear I/O) corresponds to standard PC connectors (press-fit cables).

Power Requirements - +5 volt only (under MS-DOS)

CPU	Frequency	Idle	Operating
Celeron-A	300 MHz	2.4 A	4.6 A typ.
	366 MHz	2.4 A	4.9 A typ.
	400 MHz	2.4 A	5.1 A typ.

Mechanical
6U, 2 slot wide (233 x 160 x 40 mm) including FlashDrive
Most external I/O on front-panel using standard PC connectors only

Temperature	Operating	Storage
C-Style	0°C to +55°C	–40°C to +85°C
I-Style (Celeron-A)	–40°C to +75°C	–40°C to +85°C
I-Style (PentiumII)	–40°C to +55°C	–40°C to +85°C
Humidity	5 - 90% @ 40°C	5 - 95% @ 40°C
Altitude	15.000 ft. (4.5 km)	40.000 ft. (12 km)

Shock	TBD G, TBD ms
Vibration	TBD G @ 5 to TBD Hz
MTBF	TBD hours according MIL-HDBK-217, 20°C, GB approx. TBD hours based on field test
Safety	All PCBs are manufactured with a flammability rating of 94V-0 by UL recognized manufacturers

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Ordering Information

V P 6	0 0 0 0	-	H	0	C	C	
	0						no VGA
	3						VGA\LCD (PCI) 2 MB VRAM
		0					no LAN
		2					10BaseT and 100BaseTX
			0				no SCSI
			2				Wide Ultra Fast SCSI-2 (PCI)
				0			no COM3+4
				1			0+ COM3+4 = RS-232, LPT2
				2			0+ COM3+4 = RS-422, LPT2
					J		32 Mbyte DRAM
					3		32 Mbyte ECC DRAM
					L		64 Mbyte DRAM
					5		64 Mbyte ECC DRAM
					N		128 Mbyte DRAM
					7		128 Mbyte ECC DRAM
					P		256 Mbyte DRAM
						0	no Flash
						G	4 Mbyte Flash
						J	10 Mbyte Flash
						K	20 Mbyte Flash
						L	40 Mbyte Flash
						M	80 Mbyte Flash
						N	140 Mbyte Flash
						P	220 Mbyte Flash
						4	2.1 Gbyte hard disk
						8	8.4 Gbyte hard disk
							C Celeron-A, 300 MHz
							E Celeron-A, 366 MHz
							F Celeron-A, 400 MHz
							C 0°/+55°C
							I -40°/+75°C

Hardware Accessories

SPC-R422C	RS-422/485 driver for one channel (max. 2)
VP6-TM	I/O transition module
SC306HS04G	SCSI hard disk 3.5“, 4.3 GB, 3U/6HP-box, cbl.
YLBSCSI304A	Flatcable for external SCSI drive, 60 cm, 3U/4HP front panel, 50-pin Centronics conn.
SC304F	Floppy disk 3.5 inch, 19“-box: 3U/4HP, cable
XCARD10C	PMC module: PCcard adapter
DOS-CARD	MS-DOS PCcard driver for XCARD10

Operating Systems

DOS-SETUP2	Default setup (BIOS) modification tool
DOS-MD600x	MS-DOS operating system
WIN-98xC	Windows 98 operating system
WIN-NT4xC	Windows NT 4.x operating system
QNX-11252	QNX4 operating system
QNX-11294	QNX4, Photon microGUI
SOL-x	Solaris (on request)

VMEbus Software

DOS-VME	VME driver for MS-DOS
W98-VME	VME-DLL and I/O driver for Windows 98
WNT-VME2	VME-DLL and I/O driver for Windows NT
QNX-VME	VMEbus driver for QNX
VXW-BVP6	VxWorks BSP with VMEbus driver

Chassis

SC-784TV13000B	7U/84HP, EMI-chassis, 13 slot 6U VMEbus backplane 110/220 VAC supply 250 watts, 3x fan

Special chassis, supplies, backplanes and drives on request.

Please ask for your complete starter-kit including, CPU module, pre-installed operating system and chassis.

SBS Technologies

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