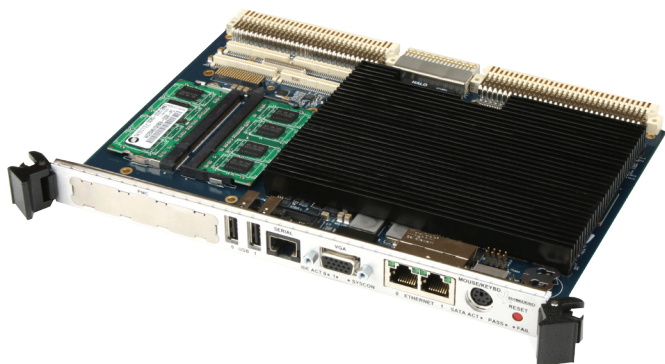


Celero™ CVME-7400

Intel® Core™2 Duo

VME Solution



The Celero CVME-7400 Intel Core2 Duo single board computer is a high-performance-per-watt commercial off-the-shelf VME card used in systems that call for PC-based technology. It is designed for military and aerospace applications such as systems management, human interface, and processing applications.

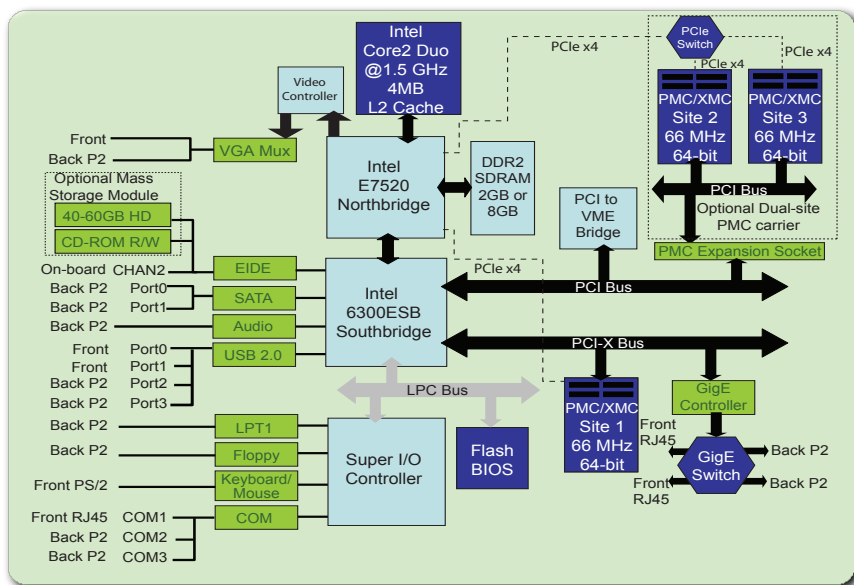
The Celero CVME-7400 features the latest Intel Core2Duo L7400 embedded processor, running up to 1.5 GHz, with E7520 Northbridge and 6300ESB Southbridge chipsets. The low-power consumption processor has 4 MB Cache. Included with the hardware are operating system support libraries for Windows® XP, Linux and QNX. The operating system resides in either the optional on-board 30 GB EIDE hard drive or the CompactFlash carrier. On-board memory consists of 2 GB 400MHz ECC DDR2 with the option of upgrading to 8 GB. Each processor core occupies half the memory available.

The Celero CVME-7400 includes a complete set of PC-based peripherals, making it ideal for implementing human user-interface features without the need of an additional PC. Its VGA graphics controller port supports resolutions up to 1280 x 1024 pixels. It also has four USB 2.0 ports, two Gigabit Ethernet ports, one audio in/out, one keyboard port, one parallel port interface, two channels of mass storage EIDE device interfaces, and two Serial ATA interfaces. An optional GB hard drive and a CD-ROM R/W drive are available. An optional transition module allows convenient peripheral access to the VME P0/P2 backplane pins.

The Celero CVME-7400 PMC/XMC sites expand the single board computer's capabilities to a variety of popular embedded I/O communications functions such as graphics controller, MIL-STD-1553, digitizers, and data acquisition. One PMC/XMC expansion site is available onboard to provide a single-slot solution. An optional dual-site PMC/XMC carrier allows two additional modules to be mounted. All PMC/XMC sites are accessible from either a front panel I/O bezel or a VME backplane. All XMC sites support PCI Express x8 per VITA 42.3. Cornet Technology also offers optional software/hardware engineering services to integrate PMCs into the single board computer.

The Celero CVME-7400 conforms to VME64x specifications with A32/A24/A16/D64/D32/D16/D8 master/slave data transfer bus. It can be ordered with the IEEE 1101.10 (VME64x) or standard (VME64) VME handles.

Cornet Technology warrants the Celero CVME-7400 to be free of defects in materials and workmanship for one year from the date of delivery. Cornet Technology also provides firmware upgrades during the warranty period. An extended warranty is available.



Specifications



Processor:	Intel Core2 Duo at 1.5 GHz	Keyboard/Mouse:	Via front panel (PS/2) with a splitter break-out cable
Chipsets:	Intel E7520 Northbridge Intel 6300ESB Southbridge	Parallel Port:	ECP, EPP, IEEE1284 via VME P2
Memory		Mechanical	
L2 Cache:	4 MB	Form Factor:	6U VME, 4 TE (one slot space) Optional hard drive, CompactFlash carrier, and dual-site PMC carrier occupies one slot space each
SDRAM:	1GB or 2 GB 200-pin ECC DDR2 at 400 MHz		
I/O Peripherals			
Graphics:	Analog VGA with built-in 3D graphics engine and 64 MB video memory Support resolutions include: <ul style="list-style-type: none">• 680 x 480 x 24-bit color• 800 x 600 x 24-bit color• 1024 x 768 x 24-bit color• 1280 x 1024 x 24-bit color Accessible via front panel 15-pin D-shell SVGA connector or VME P2	PCB Dimensions:	233.7 mm x 160 mm x 20 mm
		Lead-Free:	RoHS compliant
		Compliance:	ANSI/VITA 1-1994 VME64 ANSI/VITA 1.1-1997 VME64x IEEE 1386 Common Mezzanine Card IEEE 1386.1 PCI Mezzanine Card
Storage:	Two EIDE via VME P2 Two SATA150 via VME P2 One floppy drive interface via VME P2 Optional Type I/Type II CompactFlash slot or 1.8" 30 GB hard drive	Shock	
		Operating:	30G peak acceleration, 11 msec duration
		Non-operating:	50G peak acceleration, 11 msec duration
		Vibration	
		Operating:	0.38 mm peak-to-peak displacement, 2.5 G max acceleration
		Non-operating:	0.76 mm peak-to-peak displacement, 5.0 max acceleration
Ethernet:	Two 10/100/1000 ports Both ports accessible via front panel (RJ-45) or VME P0	Environmental	
		<i>Commercial Temperature Grade</i>	
		Operating Temperature:	0°C to +55°C
		Storage Temperature:	-40°C to +85°C
		Humidity:	10 to 95% non-condensing
		<i>Extended Temperature Grade</i>	
		Operating Temperature:	-25°C to +70°C
		Storage Temperature:	-40°C to +85°C
		Humidity:	10 to 95% non-condensing
Stereo Audio:	AD1981B AC97 audio CODEC Line level audio I/O via VME P2		
Serial Ports:	COM1 (RS-232/422/485) via front panel (RJ-45) COM2 (RS-232) via VME P2 COM3 (RS-232) via VME P2		
PMC/XMC Expansion			
Sites:	One via onboard front panel or VME P0 Supports 32/64-bit, 33/66 MHz, and 3.3V PMCs per IEEE 1386.1 Two via an optional 6U form factor dual-site PMC/XMC carrier		
XMC:	Per VITA 42.3 PCI Express x4		
USB:	One via front panel (Type A) Two via VME P2		



6800 Versar Center
Springfield, VA 22151
www.cornet.com

703.658.3400 main
703.658.3440 fax
sales.CTI@cornet.com

In the interest of continuous improvement, Cornet Technology, Inc. reserves the right to change specifications without prior notice.

DS03280800.01