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TECHNOLOGY GROUP

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The Wayback Machine - https://web.archive.org/web/20160608115205/http://gocct.com/sheets/VP/vp71708x.htm

VP 717/x8x - Intel® Core™ i7 Processor Dual PMC/XMC Embedded Controller

VP 717/x8x is a single slot processor board based on the Intel® Core™ i7 processor up to 2.53 GHz, the Mobile Intel® QM57 Express chipset and up to 8 Gbytes of DDR3-1066 ECC DRAM. It features two PMC/XMC sites and a variety of interfaces including an option for an on-board 2.5-inch mass storage drive or CompactFlash™. VP 717/x8x is suitable for a range of demanding applications within the defense, industrial control, telecomms, telemetry, scientific and aerospace markets. To simplify the board's integration many popular industry standard operating systems are supported.

Features

- 2.53 GHz, 2.0 GHz or 1.33 GHz Intel® Core™ i7 processor:
  - dual-core processor
  - 1066 MHz DRAM Bus (800 MHz for 1.33 GHz processor)
  - 4 Mbytes shared last level cache
  - Intel® Hyper-Threading Technology
  - Intel® Turbo Boost technology
  - Intel® 64 Technology (64-bit computing support)
- Up to 8 Gbytes of dual channel DDR3-1066 ECC DRAM
- High performance SATA and EIDE disk interfaces with support for optional on-board disk drive
- Onboard CompactFlash™ site
- 2 x PMC/XMC module interfaces:
  - 32/64-bit, 33/66/100 MHz PCI/PCI-X™
  - 2 x XMC module interfaces (x8 PCI Express®)
  - Expansion carrier for 2 more PMC sites
- 2 x 10/100/1000 Mbps Ethernet interfaces:
  - Gigabit Ethernet for VME64x backplane (VITA 31.1)
- 3 x serial channels and 3 x USB 2.0 interfaces
- Analog graphics, keyboard and mouse interfaces
- 8 Mbytes of BIOS Flash EPROM
- 64 Mbytes of Application Flash EPROM
- Watchdog timer; Long Duration Timer
- Single slot
- Extended temperature versions:
  - -25°C to +70°C (E-Series)
  - -40°C to +85°C (K-Series, includes humidity sealant)
- Ruggedized air-cooled versions (RA-Series):
  - -40°C to +75°C, conformally coated
- Ruggedized conduction-cooled versions (RC-Series):
  - conduction-cooled to ANSI/VITA 30.1-2002
  - -40°C to +85°C, conformally coated
- Optional Built-In Test (BIT) support:
- Power-on BIT, Initiated BIT, Continuous BIT
- Support for Linux®, Windows®, VxWorks®, QNX®, Solaris™ and LynxOS®



VP 717/08x

VP 717/08x - with VME Bridge



VP 717/18x

VP 717/18x - Bridgeless Version

View the datasheet (with VME Bridge)
View the datasheet (Bridgeless Version)
Request a Technical Reference Manual
View rugged conduction-cooled variant
View rugged air-cooled variant

Contact Us: sales@gocct.com
Sales Channels

Related products



VP 717/08



VP 717/18

Rear Transition Modules	AD VP2/026
Carrier Cards	
Mass Storage	
Cable	
Software	

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Gold-standard solutions

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We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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