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Find the *CSPI 2741* at our website: ***Click HERE***

2742 MultiComputer

Extending the power of the 2000 SERIES, CSP Inc. has combined the latest PowerPC 750 processor, running at 450 MHz, with our unique Two-Level MultiComputer architecture. Packaged in the industry standard 6U VME form factor, the 2742 MultiComputer delivers 3.6 GFLOPS of peak computational power. The 2742 MultiComputer is a result of our continued commitment to adhere to open standards and rapidly insert new technologies into our product offering.

The 2742 MultiComputer is designed with an 8-port crossbar switch interconnecting four processing nodes. Each processing node consists of two levels: a first level for managing network communications and a second level for compute processing. The Local Area Network Application Interface (LANai) chip set implements the first level for each node. This 64-bit interface which consists of a 32-bit RISC chip, a dedicated 2 MB fast buffer memory (SRAM), the high-speed Myrinet network interface and DMA engines for packet control. The second level , for compute processing, consists of a processor interface and a PowerPC 750 with 1 MB of L2 Cache, 64 MB of SDRAM and 8 MB of flash memory for boot-up and self-test. With this implementation, data transfers do not affect floating computational speed.

The high-performance, scalable Two-Level MultiComputer design combined with a compact footprint make the 2742 MultiComputer an ideal choice for your real-time embedded applications.

2722 MultiComputer

This versatile design of the 2722 MultiComputer allows the user to purchase the 2722 MultiComputer as either a Motherboard or a Daughtercard. The 2722 MultiComputer consists of two processing nodes. As a Motherboard, the 2722 MultiComputer can stand-alone or be coupled with a 2722 MultiComputer Daughtercard, growing the system to a 2742 MultiComputer. The 2722 MultiComputer Daughtercard can also be configured with other 2000 SERIES products, such as the Front Panel Data Port (FPDP), a 32-bit parallel direct interface to the Myrinet. Both the 2722 MultiComputer Motherboard and Daughtercard provide the power needed for your real-time embedded applications.

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Top of Page

2742 and 2722 MultiComputer

2000 SERIES	2742 MultiComputer	2722 MultiComputer
Floating Point Compute Power	3.6 GFLOPS	1.8 GFLOPS
1K C omplex FFT (zero data)	108 Microseconds	108 Microseconds
1K Complex FFT (random data)	114 Microseconds	114 Microseconds
Control Processor Configuration	1 per Processing Node/4 per Board	1 per Processing Node/2 per Board
Control Processor		
Control Processor		
Processor Model	PowerPC 750	PowerPC 750
Internal Processor Clock	450 MHz	450 MHz
System Clock	60 MHz	60 MHz
L2 Cache		
Memory Size	4 @1 MB (64 bit @ 225 MHz)	2 @ 1 MB (64 bit @ 225 MHz)
Transfer Rate	1.8 GB/s	1.8 GB/s
SDRAM		
Memory Size	4 @ 64 MB (256 MB per board)	2 @ 64 MB (128 MB per board)
	64 bit @ 60 MHz	64 bit @ 60 MHz
Data Transfer Rate	480 MB/s	480 MB/s
Flash		
Memory Size	4 @ 8 MB (32 MB per board)	2 @ 8 MB(16 MB per board)
Network Communications (First Level)		
Network Standard	Myrinet on VME Specification(ANSI/VITA26-1998)	Myrinet on VME Specification(ANSI/VITA26-1998)
Network Interface Controller		
NIC Model	Myrinet LANai 5	Myrinet LANai 5
RISC Memory	2 MB SRAM (64 bit)	2 MB SRAM (64 bit)
RISC Clock Rate	60 MHz	60 MHz
Bus Transfer Rate	480 MB/s	480 MB/s
Network Switch	1 @ 8 Port (4 internal/4 external)	1 @ 8 Port (4 internal/4 external)
Myrinet Internal Ports	4 SAN Ports, 320 MB/s per port	4 SAN Ports, 320 MB/s per port
	(160 MB/s in & 160 MB/s out)	(160 MB/s in & 160 MB/s out)
Myrinet External Ports	4 SAN Ports, 320 MB/s per port	4 SAN Ports 320, MB/s per port
	(160 MB/s in & 160 MB/s out)	(160 MB/s in & 160 MB/s out)
Electrical/Mechanical		
Electrical Power		

3.3 Volts	26 watts	14.5 watts *
5.0 Volts	32 watts	16 watts *
Packaging Standard	6U VME64 Extensions	6U VME64 Extensions*
I/O Connectors		
Myrinet on Front Panel	40 Pin, Dual SAN (AMP Microstrip)	40 Pin, Dual SAN (AMP Microstrip)
VME P0 Backplane (with Myrinet)	95-Pin P0 IEC 1076-4 101 Type B	95-pin P0 IEC 1076-4 101Type B
	19 Position 5 Row 2mm HM	19 Position 5 Row 2mm HM *
Weight	2 lb. (0.9 kg)	1 lb. (0.45 kg)
Environmental (Operating)		
Operating Conditions	Level 1	Level 1
Temperature Range	0º C to 50º C @ 12CFM	0º C to 50º C @ 12CFM
Altitude	10,000 ft	10,000 ft
Humidity (noncondensing)	5% to 90%	5% to 90%
Shock	15 G @ 11 MS, 1/2 Sine	15 G @ 11 MS, 1/2 Sine
Vibration (random)	2 G @ 5-500 Hz Swept Sine	2 G @ 5-500 Hz Swept Sine
For temperature, altitude and air flow trade off, consult CSPI *These features apply when the 2722 MultiComputer is configured as a Motherboard		

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Top of Page

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

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We buy equipment

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