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

2741 MultiComputer

The 2741 MultiComputer, a high-performance processor module, combines Myrinet gigabit-per-second network technology with the PowerPC architecture to deliver an open and expandable solution for your high-performance computing applications. Packaged in an industry standard 6U VME form factor, the 2741 MultiComputer delivers 3.2 GFLOPS of peak computational power for a variety of applications, including Radar, Sonar and Simulation.

The 2741 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 interface consists of a 32-bit RISC chip, a dedicated 2 MB fast buffer memory (SRAM), the 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 2741 MultiComputer an ideal choice for your real-time embedded applications.

2721 MultiComputer

This versatile design of the 2721 MultiComputer allows the user to purchase the 2721 MultiComputer as either a Motherboard or a Daughtercard. The 2721 MultiComputer consists of two processing nodes. As a Motherboard, the 2721 MultiComputer can stand-alone or be coupled with a 2721 MultiComputer Daughtercard, growing the system to a 2741 MultiComputer. The 2721 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 2721 MultiComputer Motherboard and Daughtercard provide the power needed for your real-time embedded applications.

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2741 and 2721 MultiComputer

2000 SERIES	*2741 MultiComputer*	*2721 MultiComputer*
Floating Point Compute Power	3.2 GFLOPS	1.6 GFLOPS
1K Complex FFT (zero data)	122 Microseconds	122 Microseconds
1K Complex FFT (random data)	128 Microseconds	128 Microseconds
Control Processor Configuration	1 per Processing Node/4 per Board	1 per Processing Node/2 per Board
Compute Processor (Second Level)		
Control Processor		
Processor Model	PowerPC 750	PowerPC 750
Internal Processor Clock	400 MHz	400 MHz
System Clock	66 MHz	66 MHz
L2 Cache		
Memory Size	4 @1 MB (64 bit @ 200 MHz)	2 @ 1 MB (64 bit @ 200 MHz)
Transfer Rate	1.6 GB/s	1.6 GB/s
SDRAM		
Memory Size	4 @ 64 MB (256 MB per board)	2 @ 64 MB (128 MB per board)
	64 bit @ 66 MHz	64 bit @ 66 MHz
Data Transfer Rate	533 MB/s	533 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	66 MHz	66 MHz
Bus Transfer Rate	533 MB/s	533 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)

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Electrical/Mechanical		
Electrical Power		
3.3 Volts	25 watts typical	14 watts typical*
5.0 Volts	30 watts typical	15 watts typical*
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 1076-4 101 Type 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

All specifications are subject to change

*These features apply when the 2721 MultiComputer is configured as a Motherboard

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