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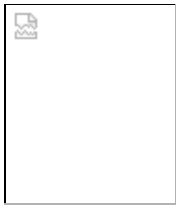
Find the *Curtiss-Wright / DY-4 CHAMP-AV II / SVME-412* at our website: *Click HERE*

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DY 4 Systems



CHAMP-AV II PowerPC 7410 DSP



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The CHAMP-AV II quad PowerPC DSP introduces the QuadFlow high bandwidth architecture for radar, sonar and signal intelligence applications. The board combines the performance of four 500MHz 7410 processors, with a non-blocking PCI crossbar architecture allowing up to 2 Gbytes/sec on-card data transfers. Each processor is provided with a dedicated bank of SDRAM, and two 528 Mbyte/sec (peak) connections to the other processor nodes. The CHAMP-AV II is particularly well suited to large multi-slot systems with support for Dy 4's StarLink switch fabric board interconnect PMC, based on StarFabric technology. When combined with StarLink, the CHAMP-AV II has industry leading card to card bandwidth. The CHAMP-AV II has many features dedicated to achieving high multi-processor application performance, while simplifying the associated software effort.

Single Board
GRAPHICS & IMAGING
Digital Signal
Communications & IO
Chassis
Software
Datasheet Index



FEATURES

- QuadFlow architecture with up to 2 Gbyte/sec peak throughput
- Two 64-bit, 66MHz PCI connections to each processor node
- Two, or four PowerPC MPC7410 processors at 500MHz
- 128 Mbytes or 256 Mbytes SDRAM per processor
- 32 Mbytes Flash
- Support for two 64-bit, 66MHz PMC I/O expansion modules
- Support for switch fabric PMC modules
- Advanced Universe II VMEbus host interface
- Multi-board synchronous time-stamping feature
- Low-latency inter-processor messaging hardware
- Hardware routing of interrupts reduces interrupt latency
- On-board 10/100BaseTx Ethernet

Related Products
Inter-Processor (IPC) Communications Software
IXLIBS-AV DSP Library
TimeSys Linux

Mezzanine Modules
StarReach Dual PMC Carrier
StarLink Switched Fabric
SVME/DMV-680 SwitchBlade
PMC-GPIO I/O Controller
PMC-643 Fibre Channel
PMC-724 Video Capture

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- TimeSys Linux SDK
- IXLibs-AV optimized Altivec DSP function library
- VSIPL Standards based DSP library
- Support libraries for non-OS based applications
- Range of air- and conduction-cooled ruggedization levels available

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