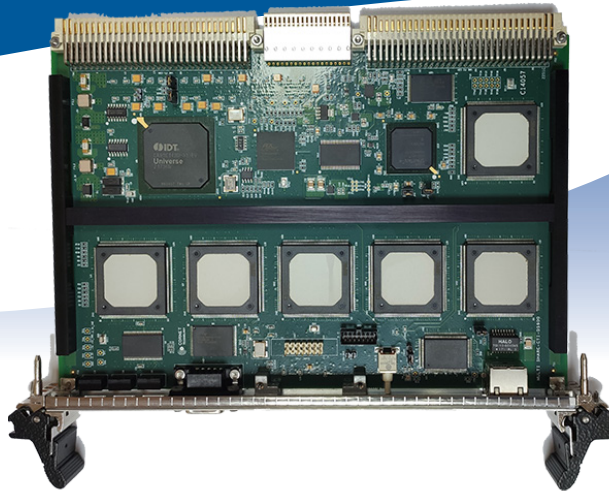# 6U VME — Hexa Sharc DSP Board

6U VME — Hexa Sharc DSP Board

Key Features

- The Board features up to six Analog Devices 32-bit ADSP-21062SHARC™ processors at 40 MIPS
- Ideally suitable for handling ground base communications, graphics, and image processing applications used in signal intelligence, radar control, and sonar control equipment
- For interfacing with data acquisition and other I/O devices, each processor provides six 4-bit SHARC Link Ports

The CORNET's 6U VME Hexa SHARC DSP Board (C14057) offers a high performance, multi-processor OEM design solution for VME system designers. It is ideally suitable for handling ground base communications, graphics, and image processing applications used in signal intelligence, radar control, and sonar control equipment.

The VME Hexa SHARC DSP Board features up to six Analog Devices 32-bit ADSP-21062SHARC™ processors at 40 MIPS. Each processor is equipped with a 32-bit IEEE floating-point computation unit and a 4 Mbit on-chip SRAM. For interfacing with data acquisition and other I/O devices, each processor provides six 4-bit SHARC Link Ports.

Other features of this board include front-panel accessible RS-232 serial port and one 10/100Base-T Ethernet port for external communication, a 4M x 8-bit (4MB) of FLASH for firmware boot-up and 2 x (4MB) of SRAM for storage.

The board users can use the Analog Devices Visual DSP++ development tool and ADZS-HPUSB-ICE /ADZS-USB-ICE emulators offered by Analog Devices for on-board software development. Developers can conveniently use the on-board JTAG interface and the front panel reset switch for extensive testing and debugging.

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Board Design

Processor: Up to 6 Analog Devices SHARC 21062 processor @ 40 MIPS, 25 ns Instruction Rate

120 MFLOP peak performance, 80 MFLOPS sustained performance

Memory:
Flash: 4MB
SRAM: 2 x 2MB (4MB)
Processor in-chip memory: 4MB

Front Panel I/O: One 10/100 Base-T Ethernet port
One DB-9 RS-232 serial port

Rear Panel I/O: 8 Link ports

Buses/Bridges: Inter-processor SHARC bus
PCI bus (PCI9056)
VME bus (VME64X interface through Universe II)

Mechanical

Form factor: 6U VME, 4TE
Dimension: 233.35 mm x 160 mm x 20 mm

Power

Supply: +5V and +3.3V from VME backplane
Consumption: 36 W max

Environment

Cooling: Convection Air Cooling
Operating Temp: -20° C to 55°C
Storage Temp: -40° C to 85°C
Humidity: 5-95 % at room temperature non-condensing

Other Features

The VME Hexa SHARC DSP Board features up to six Analog Devices 32-bit ADSP-21062SHARC™ processors at 40 MIPS.

Product is Subject to U.S. Export Laws