

## S2CR DSP ENGINE

### *Features*

---

- Embedded data acquisition and DSP (digital signal processing) module for wide range of oceanographic and hydroacoustic applications
- Stack of DSP boards (diameter 90 mm) provides a floating point processor ADSP21363 SHARC and FPGA Altera Cyclone II
- Very compact Intel 400 MHz PXA255 Xscale-based low power embedded controller with TCP/IP stack and preinstalled embedded Linux
- The module can be used as stand-alone embedded DSP system or can be integrated as mezzanine plug-in module with customer application specific hardware designs
- 10/100 Mbps Ethernet
- Two 16550 Serial Ports (one of them with a full hardware handshakes)
- Open architecture allows the design of your own peripherals
- Design Integration Service



### **SPECIFICATION**

---

- mini-host DIL/NetPC DNP/2110
- 8Mbit flash-memory and up 2Mx8 SRAM connected to DSP
- up to 1Mbit serial flash memory
- FPGA configuration device onboard
- JTAG interfacing
- hardware-specific software and example design included
- differential input ADC 14-bit up to 500Ksamples/s
- antialias filter onboard
- ADC 12-bit up to 1Msamples/s
- 4-channels 12 bit DAC up to 500K samples/s
- 22 user-configurable digital input/output lines
- power supply 24VDC (12VDC optional)