

OSM2

OEM Sonar Module

Main Features

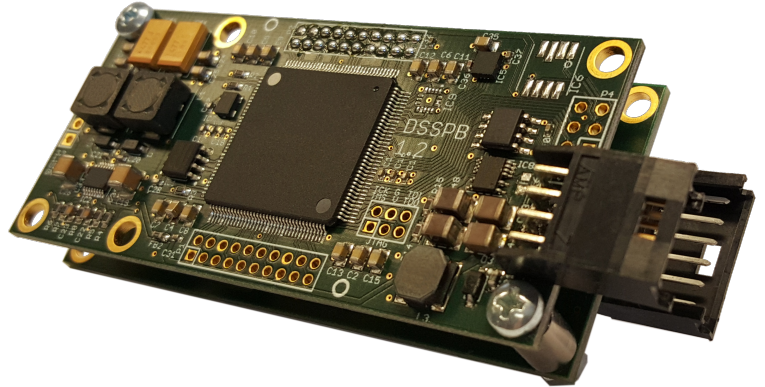
- Very low power consumption
- Wide input voltage range
- Very small physical size
- Easy to integrate and use
- Digital chirp technology
- Wide frequency range
- Software API included

The OSM2 is our extremely flexible and able dual channel OEM sonar module. It has a very wide frequency range of 50 kHz to 1200 kHz and uses the DeepVision state of the art Digital Sonar Signal Processor, DSSP. The DSSP is a high performance parallel processing unit which allows the OSM2 to use Chirp pulsing and pulse compression to capture crystal clear sonar images.

The unit can be used in a wide variety of applications, such as side scan sonars, high performance fishfinders, depth sounders, commercial fishing sonars, scanning SONARs, AUV navigation systems, etc.

The OSM2 is easy to setup using the 3.3V UART interface and runs on a single supply in the range of 11V - 48V. The typical power consumption is approximately 120mA @ 12V.

The OSM2 can be interfaced with the powerful DeepView software, either offline for post processing purposes, or online for configuration of the OSM2 and live display of sonar images.



Sonar model	OSM2
Technology	Chirp Digital
Supply voltage	11 V to 48 V
Power consumption	150 mA @ 12 V (approximate average)
Frequency	Dual 50 kHz to 1200 kHz
Resolution (Frequency and transducer dependent)	Down to 1 cm Down to 0.39 inch
Max operating depth if potted	100 m 328 feet
Interface	RS485, 3.3V UART, GND, Supply
Length	80 mm + Connector 3.15 inch + Connector
Height	30 mm 1.18 inch
Width	37 mm 1.46 inch
Weight	40 g 1.41 oz

The OSM2 can be ordered potted if it is to be mounted externally on a ROV or AUV. The potted OSM2 operates down to 100 m depth.

At DeepVision we design and manufacture custom sonar transceivers on request. Please contact us for more information.

DeepVision

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