

# OSM3

## OEM Sonar Module

### Main Features

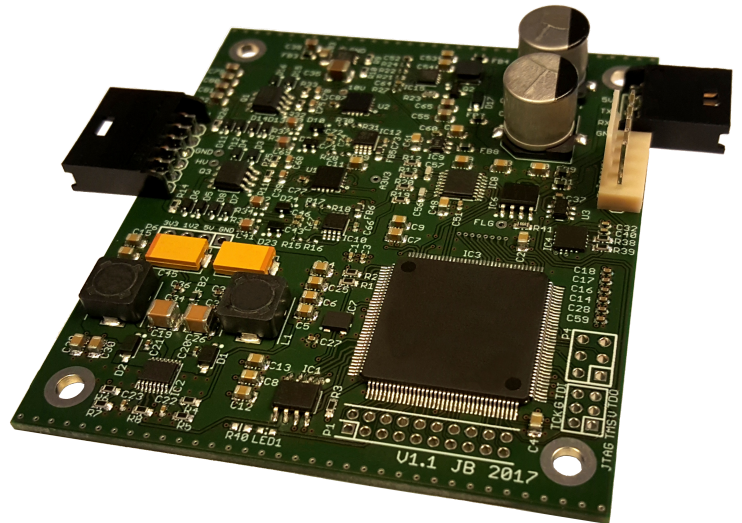
- Very low power consumption
- Wide input voltage range
- Very small physical size
- Easy to integrate and use
- Digital chirp technology
- Wide frequency range
- Software API included

The OSM3 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 OSM3 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 OSM3 is easy to setup using the 3.3V UART interface and runs on a single 5V supply. The typical power consumption is approximately 120mA @ 5V during operation.

The OSM3 can be interfaced with the powerful DeepView software, either offline for post processing purposes, or online for configuration of the OSM3 and live display of sonar images.



Sonar model	OSM3
Technology	Chirp Digital
Supply voltage	5V
Power consumption	Max 500mA
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	3.3V UART, 5V supply, Ground
Length	80 mm 3.15 inch
Height	13 mm 0.51 inch
Width	70 mm + Connector 2.76 inch + Connector
Weight	32 g 1.1 oz

The OSM3 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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