

S2C R 40/80 MODEM

S2C R 40/80 modem provides the fastest data rate of up to 33 kbit/sec over a working range of 2000 meters. With a 70 degree directional beam pattern, it can be used in underwater observation systems in shallow and deep waters.

Ideal application

- Data transmission over short and medium range
- High data rate applications, in fixed orientation
- Combined with USBL module, can provide accurate and reliable positioning for risers in offshore oil and gas industry and other subsea deployments



SPECIFICATION

WORKING RANGE.	2000 meters
MAX. ACHIEVABLE RANGE.	2500 meters (with high power in good conditions)
MAXIMUM DEPTH.	100, 1000, 2000 (6000 meters deep rated)
HYDROACOUSTIC LINK.	nominal bitrate up to 33 Kbit/s
INTERFACES.	2 x RS 232 ; Ethernet (other options available)
INTERNAL DATA BUFFER.	1 MB (user configurable)
ERROR RATE.	less than 10^{-9} (with correction algorithm)
POWER SOURCE.	external 24V DC (Optionally 12V DC)
POWER CONSUMPTION.	<i>Standby mode:</i> 3 mW <i>Receive mode:</i> 5..500 mW (adjustable toggle cycle) <i>Transmit mode:</i> For range of 250 meters - 2.5 W For range of 500 meters - 3.5 W For range of 1000 meters - 40 W high power mode provides up to 80 W for transmission
TRANSDUCER BEAM PATTERN.	directional conical beam of 70 degrees
OPERATING FREQUENCY BAND.	40 ... 80 kHz
DIMENSIONS.*	
housing	Ø 100 mm; length 170 mm
length with transducer	260 mm
WEIGHT.	
with Aluminium alloy (AlMg) housing, in air / water	2100 g / 1400 g
with Plastic (Delrin) housing, in air / water	1390 g / 690 g
with Stainless Steel housing, in air / water	8000 g / 5800 g
with deep rated Titanium housing, in air / water	6500 g / 4500 g

*Deep rated modems are slightly larger