

S2CR 18/34D

PRODUCT INFORMATION



S2C Technology: fast and reliable data transmissions with up to 13.9 kbit/s

Advanced data delivery protocol

Horizontally omnidirectional beam pattern, optimized for medium range transmissions

Depth rated device

TECHNICAL SPECIFICATIONS

GENERAL	OPERATING DEPTH	Titanium	6000 m
	OPERATING RANGE		3500 m
	FREQUENCY BAND		18 - 34 kHz
	TRANSDUCER BEAM PATTERN		horizontally omnidirectional
CONNECTION	ACOUSTIC CONNECTION		up to 13.9 kbit/s
	BIT ERROR RATE		less than 10 ⁻¹⁰
	INTERNAL DATA BUFFER		1 MB, configurable
	HOST INTERFACE ¹⁾		Ethernet, RS-232 (RS-485/422*)
	INTERFACE CONNECTOR		up to 2 SubConn® Metal Shell 1500 Series
POWER	CONSUMPTION	Stand-by Mode	2.5 mW
		Listen Mode ²⁾	5 - 285 mW
		Receive Mode ³⁾	less than 1.3 W
		Transmit Mode	2.8 W, 1000 m range 8 W, 2000 m range 35 W, 3500 m range 80 W, max. available
	POWER SUPPLY ⁴⁾		External 24 VDC (12 VDC*) or internal rechargeable battery*
PHYSICAL	DIMENSIONS	Housing	Ø 113 mm x 208 mm
		Total length	303 mm
	WEIGHT dry/wet	Titanium	6500/4500 g

* optional

¹⁾ See the Configuration Options for available standard interface combinations.

²⁾ User-configurable Listen Mode is only available with a WakeUp module installed. Power consumption in Listen Mode depends on Listen Mode settings.

³⁾ Power consumption for the RS-232 interface option. Add 600 mW for the Ethernet interface option.

⁴⁾ Contact EvoLogics for more information on power supply options.

APPLICATIONS

High-speed communication for deep-water applications
 Communication link for deep-water AUVs and ROVs
 Underwater acoustic sensor networks

CONFIGURATION OPTIONS

HOUSING	TITANIUM	Corrosion resistant, suitable for long-term deployments in harsh environments, depth rating 6000 m	
	INTERFACE	1 CONNECTOR	RS-232 ¹⁾ or Ethernet
2 CONNECTORS		RS-232 + RS-232 or RS-232 + Ethernet	
MODULES	WAKE-UP MODULE ²⁾	RS-232 interface	✓
		Ethernet interface	✗
		RS-232 + RS-232 interface	✓
		RS-232 + Ethernet interface	✗

OPERATING CONDITIONS

TEMPERATURE	Operating	0°C - +60°C
	Storage	-4°C - +60°C
MAXIMUM SHOCK		20g, 11 ms half sine
MAXIMUM VIBRATION		frequency range 5-150 Hz, 5-25 Hz: ± 2mm; 25-50Hz: 5g

¹⁾One RS-232 Interface can be replaced with either RS-485 or RS-422 interface. More interface configurations available by special request. Contact EvoLogics for more information.

²⁾The Wake Up Module turns the rest of the device on if it detects incoming acoustic signals or incoming data on the host interface. Once the device completes receiving or transmitting data, it switches itself off.