



S2C Technology: reliable high-speed data transmissions with up to 31.2 kbit/s

Advanced data delivery protocol

Hemispherical beam pattern, optimized for short and medium range transmissions in vertical, slant and horizontal channels

TECHNICAL SPECIFICATIONS

GENERAL	OPERATING DEPTH	Delrin	500 m
		Aluminium Alloy	1000 m
		Stainless Steel	2000 m
		Titanium	2000 m
	OPERATING RANGE		1000 m
CONNECTION	FREQUENCY BAND		42- 65 kHz
	TRANSDUCER BEAM PATTERN		wide-angle, 100 degrees
	ACOUSTIC CONNECTION		up to 31.2 kbit/s
	BIT ERROR RATE		less than 10 ⁻¹⁰
	INTERNAL DATA BUFFER		1 MB, configurable
POWER	HOST INTERFACE ¹⁾		Ethernet, RS-232 (RS-485/422*)
	INTERFACE CONNECTOR		up to 2 SubConn® Metal Shell 1500 Series
	CONSUMPTION	Stand-by Mode	2.5 mW
		Listen Mode ²⁾	5 - 285 mW
		Receive Mode ³⁾	less than 1.1 W
		Transmit Mode	5.5 W, 250 m range 8 W, 500 m range 18 W, 1000 m range 60 W, max. available
PHYSICAL	POWER SUPPLY ⁴⁾		External 24 VDC (12 VDC*) or internal rechargeable battery*
	DIMENSIONS ⁵⁾	Housing	Ø 110 mm x 170 mm
		Total length	265 mm
	WEIGHT dry/wet	Delrin	2300/300 g
		Aluminium Alloy	2100/1400 g
		Stainless Steel	8000/5800 g
		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 Wake-Up 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.

⁵⁾ Dimensions of a Delrin housing, other builds are slightly larger.

Specifications subject to change without notice. © EvoLogics GmbH - February 2014

APPLICATIONS

High-speed communication in adverse conditions

Communication link for AUVs and ROVs

Underwater acoustic sensor networks

CONFIGURATION OPTIONS

HOUSING	DELFIN	Plastic non-magnetic corrosion-resistant housing for short-term deployments, depth rating 200 m	
	ALUMINIUM ALLOY	Light metal housing for short-term deployments, depth rating 1000 m	
	STAINLESS STEEL	Robust metal, suitable for long-term deployments in harsh environments, depth rating 2000 m	
	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.