



S2C Technology: reliable data transmissions with up to 6.9 kbit/s

Advanced data delivery protocol

Hemispherical beam pattern, optimized for vertical and slant channels

Depth rated long-range device

TECHNICAL SPECIFICATIONS

GENERAL	OPERATING DEPTH		Delrin	200 m
			Aluminium Alloy	1000 m
			Stainless Steel	2000 m
			Titanium	6000 m
	OPERATING RANGE			8000 m
	FREQUENCY BAND			7 - 17 kHz
	TRANSDUCER BEAM PATTERN			hemispherical
CONNECTION	ACOUSTIC CONNECTION			up to 6.9 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 1.1 W
			Transmit Mode	3 W, 2000 m range
				10 W, 4000 m range
				40 W, 8000 m range
				80 W, max. available
	POWER SUPPLY ⁴⁾			External 24 VDC (12 VDC*) or internal rechargeable battery*
PHYSICAL	DIMENSIONS ⁵⁾		Housing	Ø 113 mm x 260 mm
			Total length	420 mm
	WEIGHT dry/wet		Delrin	2990/490 g
			Aluminium Alloy	4160/1560 g
			Stainless Steel	8000/5800 g
			Titanium	7780/5180 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.

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APPLICATIONS

Reliable long-range communication
 Communication link for deep-sea AUVs and ROVs
 Seafloor observatories
 Underwater acoustic sensor networks

CONFIGURATION OPTIONS

HOUSING	DELIN	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.