

S2CM Series

PRODUCT INFORMATION

All benefits of the **S2C Technology** in a compact design: smaller and lighter than the standard S2CR modem range

Fully compatible with EvoLogics S2C R and S2C R USBL series



TECHNICAL SPECIFICATIONS

		S2CM 48/78	S2CM 42/65	S2CM 18/34
GENERAL	OPERATING DEPTH	Delrin 200 m	200 m	200 m
		Stainless Steel 2000 m	2000 m	2000 m
	OPERATING RANGE	1000 m	1000 m	3500 m
	FREQUENCY BAND	48-78 kHz	42-65 kHz	18-34 kHz
	TRANSDUCER BEAM PATTERN	horizontally omnidirectional	wide-angle, 100 deg	horizontally omnidirectional
CONNECTION	ACOUSTIC CONNECTION	up to 31.2 kbit/s	up to 31.2 kbit/s	up to 13.9 kbit/s
	BIT ERROR RATE	less than 10 ⁻¹⁰		
	INTERNAL DATA BUFFER	1 MB, configurable		
	HOST INTERFACE	Ethernet or RS-232		
	INTERFACE CONNECTOR	1 SubConn® Metal Shell 1500 Series		
POWER	CONSUMPTION	Stand-by Mode 2.5 mW	2.5 mW	2.5 mW
		Listen Mode ¹⁾ 5 - 285 mW	5 - 285 mW	5 - 285 mW
		Receive Mode ²⁾ less than 0.8 W	less than 0.8 W	less than 0.8 W
		Transmit Mode 5.5 W, 250 m range	5.5 W, 250 m range	2.8W, 1000m range
		8 W, 500 m range	8 W, 500 m range	8 W, 2000 m range
		18 W, 1000m range	18 W, 1000m range	35 W, 3500m range
	55 W, max. available	35 W, max. available	55 W, max. available	
	POWER SUPPLY	External 24 VDC (12 VDC, 300 VDC options)		
PHYSICAL	DIMENSIONS ³⁾	Housing Ø 63 mm x 235 mm	Ø 63 mm x 235 mm	Ø 63 mm x 235 mm
		Total length 310 mm	300 mm	310 mm
	WEIGHT	dry/wet Delrin 1120/330 g	1210/420 g	1265/480 g
	Stainless Steel 2760/1970 g	2850/2060 g	2910/2120 g	

¹⁾User-configurable Listen Mode is only available with a Wake-Up module installed. Power consumption in Listen Mode depends on Listen Mode settings.

²⁾Power consumption for the RS-232 interface option. Add 300 mW for the Ethernet interface option. Add 300 mW for Wake-Up Module.

³⁾Dimensions of a Delrin housing, other builds are slightly larger.

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APPLICATIONS

Communication and positioning for AUVs and ROVs
 Size- and weight-sensitive applications
 High-speed communication in adverse conditions

CONFIGURATION OPTIONS

HOUSING	DELTRIN	Plastic non-magnetic corrosion-resistant housing for short-term deployments, depth rating 200 m	
	STAINLESS STEEL	Robust metal, suitable for long-term deployments in harsh environments, depth rating 2000 m	
	INTERFACE CONNECTOR	RS-232 or Ethernet	
	WAKE-UP MODULE ¹⁾	RS-232 interface	✓
		Ethernet interface	x
	OEM VERSION	Electronics and cable-mounted transducer	✓



The M-series compared to a standard S2CR 48/78 underwater acoustic modem (far left)

¹⁾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. Wake-Up Module adds 300 mW to power consumption.