

HYDROLINK RADIO MODEMS

RF TRANSCEIVERS





RADIO MODEMS FOR VARIED APPLICATIONS

The Oceanscience Group offers a wide range of RF communications equipment. Whether you need communications for an Oceanscience Riverboat, Q-Boat, buoy system or you just need a reliable, rugged, portable communications system, we can provide a solution.

Our transceivers are available with single or multiple data channels. Data is multiplexed at the remote site, transmitted over the RF link, and de-multiplexed to multiple serial ports at the shore or base station. The standard compact packaging is a watertight aluminum IP67 case with IP68 connectors.



HYDROLINK SL

Long-range 2.4GHz or 900MHz license-free single-channel transceiver using Freewave technology. Rugged, proven, powerful transceivers in watertight aluminum cases with watertight connectors. Ranges to 20 miles with appropriate antennae.



HYDROLINK ML

Long-range 2.4GHz or 900Mhz license-free multi-channel transceiver using Freewave technology. Rugged, proven 2, 3 or 4-channel transceivers in watertight aluminum cases with watertight connectors. Ranges to 20 miles with appropriate antennae.

HYDROLINK SD

Medium-range single-channel transceiver housed in rugged watertight aluminum case with watertight connectors. 2.4GHz license-free. Ranges to 1.25 miles.

RF TRANSCEIVER SPECIFICATIONS

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	SD-24 (2.4 GHz)	SL-9 (900 MHz)	SL-24 (2.4 GHz)			
Frequency Range	2400-2483 MHz	902-928 MHz	2.444-2.4835 MHz			
Method	FHSS	FHSS	FHSS			
Hopping Channels	95	50-112 (configurable)	82			
Power	250/63/10 mW	100 - 1000 mW	100 - 500 mW			
Range, Line-of-site	>8 Km (5 miles)	95 km (60 miles)	>16km (10 miles)			
Error Detection	24 bit CRC and ARQ	32 bit CRC and ARQ	32 bit CRC and ARQ			
Sensitivity	-92 dBm	-108 dBm	-105 dBm			
Max I/O Data Rate	57.6 Kbps	115.2 Kbps	115.2 Kbps			
Supply Voltage	10 - 15 vdc	10 - 30 vdc	10 - 30 vdc			
Current (Tx/Rx/idle)mA	150/55/40mA	1000/152/40mA	325/100/65mA			
Operating Temperature	-40°C to 70°C	-40°C to 70°C	-40°C to 75°C			
Size	7 x 2.5 x 1.66 in	7 x 4.5 x 1.45 in	7 x 4.5 x 1.45 in			
Weight	15.6 oz	15.4 oz 15.4 oz				

	CHANNEL CONFIGURATIONS						
	SD	SL	ML Multiple Channel Configurations				
Channels	1	1	2	3	4		
Channel 1	57.6 Kbps	115.2 Kbps	38.4 Kbps	19.2 Kbps	9.6 Kbps		
Channel 2			4.8 Kbps	4.8 Kbps	4.8 Kbps		
Channel 3				4.8 Kbps	4.8 Kbps		
Channel 4					4.8 Kbps		

CONTACT INFORMATION

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