

TrackDyne Vexa Max



Extended-Range Acoustic Modem

Technical Specifications

PARAMETER	VALUE
Dimensions (Ø × h)	64 × 62 mm
Weight (dry)	0.36 kg
Depth rating	300 m
Max. acoustic communication range	3 000 m
Payload data rate	78 / 156 / 314 / 634 bps
Supply voltage	5 – 12 V
Data lines voltage	0 – 3.3 V
Data lines output impedance	1 kOhm
Bit error rate	10^{-6}
SNR	–2 dB
Max. relative velocity	±1 m/s
Rated startup time	100 ms
Interface	UART 9 600 bps
Communication protocol	NMEA 0183 PUWV
Cable length	0.5 m
Cable diameter	5 mm
Subscribers division	Up to 20 code channels
Transmitter buffer size	128 bytes
Command mode	16 preset messages (9 user)
Signal propagation time resolution	0.0001 s
Packet mode	254 addresses, broadcast, up to 64 bytes/packet
Carrier frequency	20 050 Hz
Power consumption (Rx / Tx)	0.33 W / 15 W
Max. acoustic source level (in-band)	175 dB re 1 µPa @ 1 m
Depth sensor resolution (local / remote)	0.01 m / 0.1 m
Working temperature	–5 ... +50 °C