

APPLICABLE STANDARDS	
IEC 60945	EN 303098- 1 V1.2.1
IEC 61108-1	EN 303098- 2 V1.2.1
GPS PERFORMANCE	
Receiving Channels	50
Frequency	L1, 1575.42 MHz
Tracking Sensitivity	(-)159 dBm
Reacquisition	(-)159 dBm
Position Update	Every minute
Position Accuracy	< 2.0 m SBAS
	< 2.5 m Autonomous
VHF PERFORMANCE	
Frequency	AIS 1, 161.975MHz; AIS 2, 162.025 MHz
Data Rate	9,600bps
Tx Power	2W (1W EIRP)
Bandwidth	25 KHz
Modulation	GMSK
Range	4nm typical with receiver antenna > 5m above sea level
AIS Message Type	Message 1 (UID, GPS position, SOG, COG)
	Message 14 (MOB ACTIVE or MOB TEST)
ENVIRONMENTAL	
Operating Temperature	-20°C~55°C
Storage Temperature	-30°C~70°C
Waterproof	IP68
Immersion Depth (optional)	50m
Compass Safe Distance	0.8m
GENERAL/PHYSICAL	
Model No.	TB-520
Size	129x52x40mm (L*W*D)
Weight	170 g (main unit only)
BATTERY	
Type	Primary Lithium (not rechargeable)
Operating Time	36 hours at -10°C, typical
Storage (battery life)	5 years, replacement due after emergency use
ACTIVATION METHOD	
Manual activating or automatic activating with water sensor by immersion	