



RA21Z

MECHANICAL

Parameter	Details
Dimensions	274mm (L)×560mm (W)×226mm (H)
Weight	7.5kg
Material	Aluminum Alloy and Plastic

ACOUSTIC PERFORMANCE

Parameter	Details
Peak SPL@1m	154dBA
Continuous SPL@1m	144dBA
Max Range	1,585m



ELECTRICAL REQUIREMENTS

Parameter	Details
Battery Working Time	1.5h (Max Power)
Battery Capacity	144Wh

ENVIRONMENTAL PERFORMANCE

Parameter	Details
Hot Operating Temp	MIL-STD-810G, Method 501.5, Procedure II, Design type Hot, 60°C
Cold Operating Temp	MIL-STD-810G, Method 502.5, Procedure II, Design type Basic Cold, -33°C
Hot Storage Temp	MIL-STD-810G, Method 501.5, Procedure I, 70°C
Cold Storage Temp	MIL-STD-810G, Method 502.5, Procedure I, -40°C
Operating Humidity	MIL-STD 810G, Method 507.5, Procedure II, Aggravated Cycle
Rain	MIL-STD-810G, Method 506.5, Procedure I, Blowing rain
Salt Fog	MIL-STD-810G, Method 509.5
Shipboard Vibration	MIL-STD-167-1A
Shipboard Shock	MIL-S-901D, Shipboard Shock, Class I, Shock grade B
Random Vibration	MIL-STD-810G, Method 514.6, Wheeled Vehicles

SAFETY

*Designed to meet MIL-STD-810G, MIL-STD-167-1A & MIL-S-901D

Parameter	Details
Safety	MIL-STD-1474D

ELECTROMAGNETIC COMPATIBILITY (EMC)

Parameter	Details
EMC	FCC Part 15 class A radiated emissions; CE: MIL-STD-461F



RB12C

ACOUSTIC MODULE MECHANICAL

Parameter	Details
Dimensions	236mm(L)×257mm(W)×250mm (H)
Weight	5.2kg
Material	Carbon Fiber and Injection Molding Parts

ACOUSTIC PERFORMANCE

Parameter	Details
Peak SPL@1m	147dBA
Continuous SPL@1m	138dBA
Max Range	794m



PERFORMANCE PARAMETERS

Endurance Mileage	6km
Max Load	≥10kg
Continuous Stair Climbing Height	>16cm
Slope Walking Ability	≥ 40°
Max Running Speed	3.7m/s
Jump Height (off ground)	35cm
Endurance Time	1-2h

BASIC PARAMETERS

Standing Size (L×W×H)	63cm×36cm×42cm
Prone Size (L×W×H)	67cm×42.5cm×15cm
Total Weight (incl. battery)	15kg (battery included)
Battery	Nominal Capacity 5Ah, Voltage 43.2V
Operating Temperature	0°C~40°C
Protection Rating	IP54
External Expansion Interfaces	Ethernet Port, USB Port, SBUS Port, UART Port, Power Port



RB21H

ACOUSTIC PERFORMANCE

Parameter	Details
Peak SPL@1m	142dBA
Continuous SPL@1m	134dBA
Acoustic Beam Angle	±20° /-3dB
Max Range	501m

ACOUSTIC MODULE MECHANICAL

Parameter	Details
Height	73 mm
Diameter	201 mm
Material	Aluminum Alloy and Plastic
Protection Level	IP65
Remote Control	TCP/IP
Acoustic Module Count	2



PERFORMANCE PARAMETERS

Maximum Speed	35 km/h
Cruising Speed	18 km/h
Maximum Climbing Angle	17°
Maximum Overrun Height	300 mm
Zero to Max-Speed Time	2.5 s
Zero to Max-Speed Distance	5.0m
Max-Speed to Zero Time	2.8 s
Max-Speed to Zero Distance	6.5m

BASIC PARAMETERS

Diameter	800 mm
Weight	150 kg
Battery Capacity	2,400 wh
Charging Time	≤3h
Navigation Time	≥8h
Navigation Mileage	≥100 km
Protection Level	IP68
Exploration Proof	Ex-d-IIB

ENVIRONMENTAL ADAPTABILITY

Environmental adaptability		
Rain	Heavy	(Rainfall:140mm/12h)
Snow	Heavy	(Snowfall:15mm/12h)
Hail	Large	(Hail Diameter:50mm)
Fog	Strong	(Horizontal Visibility:50m)
Haze	Severe	(Horizontal Visibility:50m)
Wind	Grade 8	(Wind-Speed:20.7 m/s)
Thunder	Level 4	
Earthquake	Richter 5.5/Mackenzie VIII	
Temperature	-25~65°C	



RD500

Typical CWA

GB Sarin	0.3 mg/m ³ , ≤20 s
HD Distilled mustard	3 mg/m ³ , ≤20 s
VX	0.3 mg/m ³ , ≤20 s
GD Soman	0.3 mg/m ³ , ≤20 s



Temperature Display Unit

Recovery time	≤120 s
Recognition accuracy	≥90%
Weight	≤380 g
Dimensions	100 mm×80mm×40 mm
Temperature range	Operation: -40°C to 60°C; Storage: -45°C to 70°C
Alarm modes	Audio/light/vibration/WLAN/Bluetooth
Ingress protection	IP65
Power supply	18650 battery or Type-C
Power consumption	≤1W
Battery life	Up to 12 hours
Sensing technology	Surface acoustic wave



QS47



Underwater Scanning Sonar

Operating depth	≥300 m
Max detection range	≥150 m
Max horizontal beam width	150°
Max vertical beam width	30°
Refresh rate	Up to 40Hz
Operating frequency	400kHz / 700kHz
Signal type	CW, CHIRP