

Bluetooth RAIN RFID Reader IDT RHB500 Atex Certified



Bluetooth 2.1
BLE



Small Form
Factor



Atex



UHF



IP 65



The IDT RHB500 is an intrinsically safe handheld RAIN RFID Reader, designed for use in hazardous areas and harsh environments such as offshore, marine, chemical and industrial environments. The device is certified for use in ATEX and IECEx Zones 1, 2, 21 and 22. It has been created to work seamlessly with smartphones, tablets, and other Windows/Android devices to give a greater range of functionality. The IDT RHB500 is invaluable for supporting operations such as Inventory Management, Tracking & Tracing, Maintenance Planning and Regulatory Compliance. Lightweight and ergonomic, is easy to use with one hand. The stylus nib means you can even operate a connected tablet whilst wearing gloves, avoiding unnecessary time wasting and helping you work more productively.

PERFORMANCE

Frequency Range	865 - 868 MHz 902 - 928 Mhz
RF Power	Programmable in 14 levels from 5 dBm ERP (3mW ERP) to 22 dBm ERP (150mW ERP)
Antenna	Integrated Linear (horizontal)
Standard Compliance	EPC C1 G2 / ISO18000-6C
Read Range	Up to 90 cm / Tag Dependant
Bluetooth	Class 2 Bluetooth 2.1 + EDR, 10m range
Memory	Capacity 48K – 4096 EPC Codes
User Interface	Button #1: ON/OFF Button #2: Trigger Led #1: Power Indication and Battery Status (green : High; Red:Low) Led #2: Communication Activity (blue: Bluetooth; Orange: USB) Buzzer: Bi tonal for events signalling Vibration: For events signalling Display: LCD Alphanumeric (8 chars x 2 lines)
OS Compatibility	Windows, Android, HID Profile and SPP, Virtual Com Port
Battery Life Operating	> 12h with 40'000 tag readings; Standby: > 15 days
Battery Charging Time	2h (typical)

IP Rating	IP 65
Dimensions	(W)59 x (L)128 x (H)22 mm3
Operating Temperature	-20°C to +55°C
Weight	150 g

FEATURES

Form Factor	Small, lightweight and ergonomic
Power	Battery
Display	LCD
Feedback	Vibration / Buzzer
Safe Zone	Zone 1 and 2
Certification (Hazardous Area Version Only)	Ex II 1 GD, Ex ia IIC T4 Ga, Ex ia IIIC T135 Da Ex I M1 Ex ia I Ma US&Canada MET Class I ,II, III Div 1, Groups A-G

ORDER INFORMATION

Part Number	IDT.RH.B500
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APPLICATION AREA



Oil & Gas



Marine



Energy



Asset
Tracking



Chemical



Offshore



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The product specifications and descriptions listed in the specification sheet are subject to change anytime without notice.

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