UHF RFID Desktop Reader

IDT 108



Bluetooth USB UHF RFID

The IDT-108 UHF RFID Desktop Reader is a sleek, high-performance, short-range RAIN RFID reader powered by the Impinj E310 chipset. Featuring a built-in near-field antenna, adjustable RF output power, Bluetooth 5.1, and USB Type-C connectivity, it enables accurate item-level identification within a controlled reading zone. With an optional rechargeable battery, the reader is ideal for POS systems, retail smart interactive displays, smart shelves, self-checkout counters, and product identification applications.

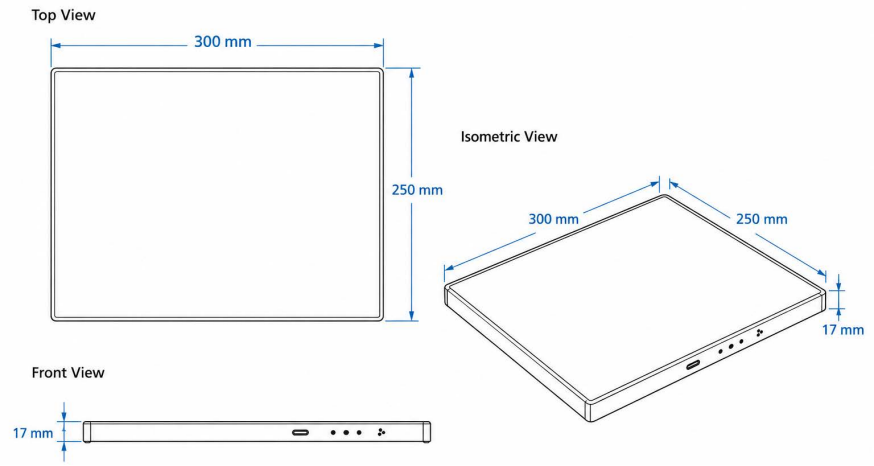
PHYSICAL PARAMETER

Dimensions (L × W × H)	300 × 250 × 17 mm
Weight	~800 gms
Power Supply	USB Type-C
Built-in Battery (Optional)	10,000 mAh rechargeable battery | Working Mode: Up to 18 hours |
	Sleep Mode: Up to 7 days.
Indicator LED	Blue: Bluetooth Connection | Red: Power | Green: Status (Flashes during tag
	scanning)
Indicator Buzzer	Yes

ENVIRONMENTAL SPECIFICATION

Operating	-20°C to +50°C
Temperature Storage	-40°C to +70°C
Temperature Humidity	5%RH - 95%RH non condensing
Sealing	IP 54

DIMENSIONS



PERFORMACE

RFID Chipset	Impinj E310
Working Frequency	865-868 MHz (IND), 902-928 MHz (US)
Air Interface	EPC Class 1 Gen 2 / ISO/IEC 18000-63
Output Power	0–27 dBm, adjustable
Receive Sensitivity	Up to -75 dBm
Inventory Speed	Up to 350 tags/sec
Read Range	Up to 30 cm (tag and environment dependent)
Antenna	Built-in Near-Field UHF RFID Antenna
Tag Buffer	Up to 1,000 tags (96-bit EPC)

COMMUNICATION

Bluetooth	Bluetooth Low Energy (BLE) 5.1
USB	Data Communication via USB Type C
Keyboard Emulation Mode	USB HID

ORDER INFORMATION

Part Number	IDT.UHF.108

APPLICATION AREA

Retail | Inventory | Warehouse | Manufacturing Unit

ID TECH SOLUTIONS PVT. LTD.
610, Udyog Vihar Phase-5, Gurgaon, Haryana - 122016, INDIA | T. : +91-124 - 4255530 (6 Lines)
E.: info@idsolutionsindia.com | W: www.idsolutionsindia.com

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