

# Smart adapter (USB-C UHF Reader)

Technical Datasheet

Version: 1.3



The Smart-Adapter is a compact **UHF-RFID Reader**, that can be connected with Smartphones, Tablets or Laptops via **USB-C**. It enables fast and reliable reading of UHF-RFID-Transponders for applications in logistics, industry, retail, and asset tracking. The reader can be operated either in **HID mode (Keyboard-Wedge)** or in **Answer-Mode (API)**.



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## General Description

Category	Details
Interfaces	USB-C (plug and play), compatible with Windows/Android/Linux/macOS (driver-free), powered by USB-C 5V
Technology	865.7-867.5 MHz (EU), 902-928 MHz (US), EPC C1G2 (ISO 18000-6C), channel bandwidth 200 kHz
Performance data	RF output power up to 24 dBm (adjustable), EIRP 10 dBm, Maximum inventory speed up to 350pcs/s Antenna gain -13 dBi, reading range - ~10-20 cm*
Modes	HID Mode (Keyboard-Wedge) or Answer Mode (Protocol-based via API)
Physical properties	50x28x9mm(without interface), Net Weight 10 g, ABS plastic housing, black/grey color, IP54 protection class
Environment	Operating: -10 °C to +55 °C, Storage: -20 °C to +70 °C, Humidity 10-90 % (non-condensing)
Software & Integration	SDKs for Windows/Android/Linux, standard commands, sample applications available
Security & Certifications	 CE, WEEE, RoHS
Typical areas of application	Inventory, Warehouse Management, Document Management, Retail & POS, Event & Ticketing
Scope of delivery	Smart Adapter, Quick Start Guide

\* The reading distance between the reader and the transponder depends heavily on environmental conditions and the performance of the chip/transponder.