TECHNICAL DATASHEET

EXTRONICS
a BARTEC brand

iRFID 500

A highly rugged, handheld, Bluetooth, passive UHF RFID reader for industrial or hazardous area use

Connects to a tablet via Bluetooth or can work standalone to suit your application

ATEX and IECEx Zone 0, 1, 2, 21, 22, and M1 mining certified

US & Canada Class I, II, III Division 1 certified

Available in ETSI or FCC variants for worldwide use

Fully rugged and highly durable with long battery life

Ergonomically designed and lightweight, easy to carry and use

Based on proven CAEN RFID reader technology

Compatible with Android, Windows, and Apple devices

Simple to operate with LCD display, buzzer sound, and vibration alerts

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SPECIFICATION

Certification *(hazardous area variants only)*	⟨Ex⟩ II 1 G / II 2D / I M1 Ex ia IIC T4 Ga Ta = -20˚C to T_{amb} ≤ 55˚C Ex ib IIIC T135˚C Db Ex ia I Ma CML 15ATEX2169X IECEx CML 15.0085X cMETus Class I Div 1, Groups A-D cMETus Class II, III Div 2, Groups F-G
Operating frequency	865.6 – 867.6 MHz (ETSI EN 302 208 v. 1.4.1) 902 – 928 MHz (FCC part 15.247)
RF power	0 – 200mW
Read range	0 – 1m (tag dependent)
Tag compliance	ISO 18000-6C/EPC C1G2
Battery life	Over 12 hours when connected via Bluetooth and reading thousands of tags
Memory capacity	48K - 4096 EPC Codes
Bluetooth	Class 2 Bluetooth 2.1 + EDR, 10m range
Operating temperature	-20 to +55˚C (-4°F to +131°F)
Dimensions	L128 x W59 x D22mm (5.04 x 2.32 x 0.87in)
Weight	150g
Ingress protection rating	IP65
Display	LCD alphanumeric (8 characters x 2 lines)
Buttons	Two buttons: On/off and trigger/confirmation
Indication lights	Two LEDs: power level and communication status
Internal clock	For time stamping tag reads with date and time
OS compatibility	Windows, Android, HID profile, Virtual com port
Data connector	Micro USB

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ORDERING INFORMATION

iRFID50002	iRFID500 UHF RFID reader, ETSI frequency. ATEX, IECEx, MET certified.
iRFID50004	iRFID500 UHF RFID reader, FCC frequency. ATEX, IECEx, MET certified.
iRFID50004AU	iRFID500 UHF RFID reader FCC frequency ATEX, IECEx, MET certified. To be configured to Australian Frequency [1]
iRFID50004ID	iRFID500 UHF RFID reader FCC frequency ATEX, IECEx, MET certified. To be configured to Indonesian Frequency [1]
iRFID50004MY	iRFID500 UHF RFID reader FCC frequency ATEX, IECEx, MET certified. To be configured to Malaysian Frequency [1]
iRFID50004KR	iRFID500 UHF RFID reader FCC frequency ATEX, IECEx, MET certified. To be configured to South Korean Frequency [1]
iRFID50004TW	iRFID500 UHF RFID reader FCC frequency ATEX, IECEx, MET certified. To be configured to Taiwanese Frequency [1]
iRFID50004TH	iRFID500 UHF RFID reader FCC frequency ATEX, IECEx, MET certified. To be configured to Thailand Frequency [1]
iRFID50004VN	iRFID500 UHF RFID reader FCC frequency ATEX, IECEx, MET certified. To be configured to Vietnamese Frequency [1]
iRFID50004BR	iRFID500 UHF RFID reader FCC frequency ATEX, IECEx, MET certified. To be configured to Brazilian Frequency [1]
iRFID50004CN	iRFID500 UHF RFID reader FCC frequency ATEX, IECEx, MET certified. To be configured to Chinese Frequency [1] [1] Note: Unless otherwise stated, local wireless regulatory approval not included.
ACCESSORIES:	
iRFID500UC	Additional USB Charger/Data Cable for iRFID500 hazardous area variants
iRFID500DK3	iRFID500 Demonstration Kit with iRFID50002 UHF RFID Reader, ETSI frequency, ATEX/IECEx/MET certified version
iRFID500DK4	iRFID500 Demonstration Kit with iRFID50004 UHF RFID Reader, FCC frequency, ATEX/IECEx/MET certified version Demonstration kits include the specified iRFID500 variant, wrist lanyard, charger/data cable, and a selection of passive UHF RFID tags.