

TECHNICAL DATASHEET



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, 20, 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

SPECIFICATION



Certification <i>(hazardous area variants only)</i>	Ex II 1 GD Ex ia IIC T4 Ga, Ex ia IIIC T135 Da Ex I M1 Ex ia I Ma cMETus Class I, II, III Div 1, Groups A-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
Integrations	Software Development Kit (SDK) available, including libraries for Visual C++, JAVA, Android and Microsoft .NET



ORDERING INFORMATION

IRFID50001

iRFID500 UHF RFID reader, ETSI frequency. ATEX, IECEx, MET certified.

IRFID50003

iRFID500 UHF RFID reader, FCC frequency. ATEX, IECEx, MET certified.

ACCESSORIES:

IRFID500UC

Additional USB Charger/Data Cable for iRFID500 hazardous area variants

IRFID500DK3

IRFID500 Demonstration Kit with iRFID50001 UHF RFID Reader, ETSI frequency, ATEX/IECEx/MET certified version

IRFID500DK4

IRFID500 Demonstration Kit with iRFID50003 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.