

**REDBAT RFID** is a family of products designed by Techsigno suitable for use in industrial environments.

The **REDBAT UHF** Version is compatible with the ISO18000-6C standard are capable of working in the 865-867MHz (ETSI) and 902-928MHz (FCC) frequency ranges, and the **REDBAT HF** is compatible with ISO15693 standard as ISO14443A/B working at 13.56Mhz

They are available either with Integrated Antenna for Near Filed Applications or with External Antenna (on the UHF Version) for Mid Range.

The power input in the 9-36Vdc range and PROFIBUS - PROFINET - IoLink communication interfaces with M12 connectors and IP65 enclosure make them suitable for use in industrial environments.

Ease of use is then ensured by the SW suite supplied with the kit that allows the configuration of functional modes.

The complete messaging documentation and the DLLs provided allow for quick and easy integration with third party applications.







## RED BAT Specifications

Physical Characteristics	
Dimensions	63*95*34mm
Weight	250gr
Power Supply	9-36Vdc
	Power On
Optical Indicator	Activity
	RFID Status

Performance	
CPU	Cortex M4

User Environment	
Operating Temp.	-40°C to 60°C
Storage Temp.	-40°C to 70°C
Humidity	5%RH - 95%RH non condensing
Sealing	IP65 per IEC sealing specifications
ESD	±15KV air discharge, ±6KV conductive discharge

RFID	
UHF	
Frequency	865MHz-868MHz / 920MHz-925MHz / 902MHz-928MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Internal 1dBi Circular Polarization
	External on SMA Female connector
Power	10dBm to 23dBm adjustable)
HF	
Frequency	13.56MHz
Protocol	ISO14443A/B - ISO15693
Chips	M1 card (S50/S70), M0 (Ultralight), M3 (Desfire D40/D41/D81), CPU_A card, CPU_B card, ICODE II, TI2048, LRI64K, Others for customizations
Range	3-8cm
(*) HF RFID is alternative to UHF - Read/write Range and Reading Rates depend on tags	

and environments

Communication	
Serial	RS485 MODBUS IOLINK
Ethernet	10/100 TP

Connections	
Serial + Power	M12 5P Female Code A / Bypass M12 5P Male Code A
Ethernet	M12 4P Female Dcode





