



DATA SHEET

RFO Gimly 500USB (500 mW UHF Reader 10 cm - 3 m read range)



Product Description		RFO Gimly 500USB
<p>The RadioForce RFO Gimly 500USB reader is an UHF multiregional compact reader for high performances UHF RFID applications.</p> <p>With programmable output power in 8 steps from 10dBm to 27dBm, the reader can detect tags up to 3m of distance (depending on antenna and tag dimensions).</p> <p>The radio frequency core of the module allows to achieve fast reading/writing and operation in dense reader and dense tag environments for top-class rated performances.</p> <p>The RFO Gimly 500USB complies with and can operate in both European and US regulatory environments and, due to its multiregional capabilities, it's ideal for integration in devices requiring compliance to different geographical regions.</p>		
Electrical Characteristics		
Operating Frequency	902÷928 MHz (FCC part 15) 865.600÷867.600 (ETSI EN 302 208)	
UHF Standards	EPCglobal Gen 2 (ISO 18000-6C) with DRM, ISO 18000-6B (optional) and IP-X (optional)	
Output Power	Programmable in 8 steps up to 500 mW @ 5 V (27 dBm)	
Number of channels	10 channels (compliant to ETSI EN 302 208) 50 hopping channels (compliant to FCC part 15)	
Frequency tolerance	±10 ppm over the entire temperature range	
Read range	Depending on the performance of the transponder, frequency, chip type and the system environment. RadioForce 500SUB (10cm - 3m)	
Communication interface	1 USB A connector I/O plus 1 USB for additional 5V DC	
USB Device Port	One USB 2.0 Full Speed (12 Mbits per second) device port.	
Digital I/O	Four I/O lines 3.3V out, 5V tolerant	
Power supply	4.75VDC ÷ 5.25VDC ripple and noise < 100mVpp ripple frequency > 100kHz	
Power consumption	1A peak @ 5 V (TX/RX mode), 230 mA @ 5 V (idle mode)	
Operational temperatur	from - 20°C up to 60°C	
Size	Size: 54 x 42 x 17 mm ± 0,3mm	
Protection class	IP54	
Antennea connector	SMA connector / 50 Ohm	
Certificates	FCC, ETSI	
max. cable length (USB)	up to 1m	
Gehäuse	Aluminium / black painted	
Weight	315 gr	
Article No.:	500mW / 1 SMA Antenna connector	RFO Gimly 500USB
Typical Applications		
harsh environment applications		
automotive industry and laboratory		
bio/chemistry/forensic/pharmacy/environment		beverages logistics



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