

**RFO 1500RS**  
**(1500 mW UHF Reader**  
**4 antenna connectors**  
**10cm - 10m read range\*)**



Product Description		RFO 1500RS
<p>The RFO 1500RS reader is an UHF multi protocol reader for long range applications.</p> <p>With programmable output power in 256 steps from 17dBm to 32dBm, the reader can detect tags up to 10m of distance (depending on antenna and tag dimensions).</p> <p>Due to its form factor, the module is specifically designed to be easily installed for UHF tag programming and reading.</p> <p>The RFO 1500RS is fully compliant to the European regulations ETSI EN 302 208 and ETSI EN 300 220 and supports Philips UCODE EPC 1.19, ISO 18000-6B, and EPC Class1 Gen2.</p> <p>The RFO 1500RS is ideal for healthcare applications that require a long range RFID reader engine featuring up to 4 antennas. <b>Optional with ETHERNET or USB.</b></p>		
<b>Electrical Characteristics</b>		
Operating Frequency	865.6 ÷ 867.6 MHz (ETSI EN 302 208)	
UHF Standards	ISO 18000-6B, Philips UCODE EPC 1.19, EPC C1G2	
Output Power	SW programmable Max.: 1.5 W (32 dBm) conducted	
Number of channels	4 channels compliant to ETSI EN 302 208	
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.	
Communication interface	RS232 via 9 D-Sub (cable length up to 15 m)	
Digital I/O	Five I/O lines 3.3 V out, 5 V tolerant (optional) via additional D9-Sub connector	
Power supply	15V± 5% VDC external power supply	
Power consumption	1 A @ 15 V (TX/RX mode), - 260 mA @ 15 V (idle mode)	
Operational temperature	from - 20°C up to 70°C	
Size	Size: 230 x 120 x 35 mm ± 0,3 mm	
Protection class	Housing IP54	
Antenna connector	4 x SMA connector / 50 Ohm, 1 SMA for LBT (Listen Before Talk)	
Certificates	ETSI	
max. cable length	up to 10m	
Housing	Aluminium / black painted	
Weight	915 gr	
<b>Article No.:</b>	<b>1500mW / 4 SMA Antenna connector + 1LBT</b>	<b>RFO 1500RS</b>
<b>Typical Applications</b>		
harsh environment applications	Healthcare / Hospital / Clinic	
automotive industry and laboratory	identification and back tracing	
bio/chemistry/forensic/pharmacy/environment	beverages logistics	



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