



## RFO AIO1919-500ETH (500 mW UHF Reader/Antenna 10 cm - 3 m read range)



Product Description	RFO AIO 1919-500ETH
<p>The RadioForce product family combines high performance with field-proven antenna/enclosure technology. The flat panel antenna system meets the growing demand for compact solutions that provide excellent reading results (Indoor and Outdoor).</p> <p>The integrated reader antenna enclosure presents a tailor made RFID UHF solution. The robust enclosure (IP67) has been developed for extreme conditions in all kind of environment (e.g. outdoor offshore, healthcare, extremely dirty environment).</p> <p>The professional mounting kit allows mounting in almost all positions (wall and pole) and provides adjustments of vertical and horizontal directions.</p> <p>The RFO AIO1919-500ETH comes typically with a 500mW Reader. In conjunction with the antenna the read range (depending on tag and environment) can reach up to 3-5m. Simple connection via Ethernet.</p>	
<b>Characteristics (enclosure / antenna)</b>	
Enclosure size	190 x 190 x 50 mm (max external) 150 x 150 x 38 mm (max internal)
Antenna size	190 x 190 mm (min) 450 x 450 mm (max)
Mounting	Both wall and polemount
Temperature	-55 ° to +75 °C
Connectors	CAT 5 und N-Type (RJ45 or 9Sub-D)
Humidity	100%
Water tightness	IEC 529 / IP67
Power dissipation	15W max
Housing	Aluminium / white painted
Weight	550 gr (without antenna)
<b>Characteristics (500mW UHF Reader)</b>	
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. (10cm - 5m)
Communication interface	TCP/IP over RJ45 (RS232 on request)
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)
<b>Article No.:</b>	<b>RFO AIO 1919-500ETH</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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