

# DATA SHEET



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

Product Description		RFO AIO 1919-500ETH
<p>The AGX AIO 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 extrem 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 AGX 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)	
Article No.:		<b>RFO AIO 1919-500ETH</b>
<b>Typical Applications</b>		
Asset & facility management	Cold chain & vehicle monitoring	
Applications with need for autonomous identification	Identification and back tracing	
Bio/Chemistry/Forensic/Pharmacy/Environment	Healthcare / Hospitals / Clinics	

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