



AGX AIO1919-500ETH

(500 mW UHF Reader/Antenna 10 cm - 3 m read range)

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).

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, extremly dirty environment).

The professional mounting kit allows mounting in almost all positions (wall and pole) and provides adjustments of vertical and horizontal directions.

The AGX AlO1919-500ETH 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.

Enclosure size 190 x 190 mm (max external) 190 x 190 mm (max) 190 x		
150 x 150 x 38 mm (max internal)	Characteristics (enclosure / antenna)	
150 x 150 x 38 mm (max internal) 190 x 190 mm (min) 190 x 190 mm (min) 450 x 450 mm (max) 450 x 450 mm (Enclosure size	190 x 190 x 50 mm (max external)
Astonacise		150 x 150 x 38 mm (max internal)
A50 x 450 mm (max) A50 mm (max)	Antenna size	
Temperature		
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) Characteristics (500mW UHF Reader) Operating Frequency 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) 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 consumption 1A peak @ 5 V (TX/RX mode), 230 mA @ 5 V (idle mode) Typical Applications Asset & facility management Cold chain & vehicle monitoring	0	· ·
Humidity 100% 15W max 15W max	- I	
Value Tightness IEC 529 / IP67	Connectors	CAT 5 und N-Type (RJ45 or 9Sub-D)
Power dissipation 15W max	Humidity	
Aluminium / white painted S50 gr (without antenna)		
S50 gr (without antenna)	Power dissipation	
Characteristics (500mW UHF Reader) 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.: RFO AIO 1919-500ETH Typical Applications Asset & facility management Cold chain & vehicle monitoring	Housing	
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 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.: RFO AIO 1919-500ETH Typical Applications Asset & facility management Cold chain & vehicle monitoring	Weight	550 gr (without antenna)
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 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.: RFO AIO 1919-500ETH Typical Applications Asset & facility management Cold chain & vehicle monitoring	Characteristics (500mW UHF Reader)	
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) 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 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.: RFO AIO 1919-500ETH Typical Applications Asset & facility management Cold chain & vehicle monitoring		
Output Power		865.600 - 867.600 (ETSI EN 302 208)
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.: RFO AIO 1919-500ETH Typical Applications Asset & facility management Cold chain & vehicle monitoring	UHF Standards	EPCglobal Gen 2 (ISO 18000-6C) with DRM, ISO 18000-6B (optional) and IP-X (optional)
Number of channels Frequency tolerance Read range Communication interface Digital I/O Power supply Article No.: Up to 500 mW @ 5 V (27 dBm) 10 channels (compliant to ETSI EN 302 208) 50 hopping channels (compliant to FCC part 15) ### 10 ppm over the entire temperature range Depending on the performance of the transponder, frequency, chip type and the system environment. (10cm - 5m) TCP/IP over RJ45 (RS232 on request) Four I/O lines 3.3V out, 5V tolerant ### 14 peak @ 5 V (TX/RX mode), 230 mA @ 5 V (idle mode) RFO AIO 1919-500ETH Typical Applications Asset & facility management Cold chain & vehicle monitoring	Output Power	Programmable in 8 steps
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.: RFO AIO 1919-500ETH Typical Applications Asset & facility management Cold chain & vehicle monitoring	Output Power	up to 500 mW @ 5 V (27 dBm)
S0 hopping channels (compliant to FCC part 15) Frequency tolerance	Number of channels	10 channels (compliant to ETSI EN 302 208)
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.: RFO AIO 1919-500ETH Typical Applications Asset & facility management Cold chain & vehicle monitoring		50 hopping channels (compliant to FCC part 15)
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.: RFO AIO 1919-500ETH Typical Applications Asset & facility management Cold chain & vehicle monitoring	Frequency tolerance	±10 ppm over the entire temperature range
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.: RFO AIO 1919-500ETH Typical Applications Asset & facility management Cold chain & vehicle monitoring	Read range	Depending on the performance of the transponder, frequency, chip type and the system
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.: RFO AIO 1919-500ETH Typical Applications Asset & facility management Cold chain & vehicle monitoring		environment. (10cm - 5m)
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.: RFO AIO 1919-500ETH Typical Applications Asset & facility management Cold chain & vehicle monitoring	Communication interface	TCP/IP over RJ45 (RS232 on request)
Power consumption 1A peak @ 5 V (TX/RX mode), 230 mA @ 5 V (idle mode) Article No.: RFO AIO 1919-500ETH Typical Applications Asset & facility management Cold chain & vehicle monitoring	Digital I/O	Four I/O lines 3.3V out, 5V tolerant
Article No.: RFO AIO 1919-500ETH Typical Applications Asset & facility management Cold chain & vehicle monitoring	Power supply	4.75VDC ÷ 5.25VDC ripple and noise < 100mVpp ripple frequency > 100kHz
Typical Applications Asset & facility management Cold chain & vehicle monitoring	Power consumption	1A peak @ 5 V (TX/RX mode), 230 mA @ 5 V (idle mode)
Asset & facility management Cold chain & vehicle monitoring	Article No.:	RFO AIO 1919-500ETH
Asset & facility management Cold chain & vehicle monitoring	Typical Applications	
Applications with need for autonomous fuldentification and back tracina		Cold chain & vehicle monitoring
propriesarions man need for determined fluorimined for data back indexing	Applications with need for autonomous	fuldentification and back tracing
Bio/Chemistry/Forensic/Pharmacy/Enviro Healthcare / Hospitals / Clinics		