



ARTEMIS ILTS
Item Level Tagging Solutions

ATS2128

Ultimate General Merchandise Rfid Reader.
Ready straight from the box.



Made for
iPod iPhone iPad Bluetooth®

Rfid Apparel and General Merchandise Reader with Performance Like No Other

The ATS2128 *Bluetooth*® UHF RFID reader comes from a long-established pedigree of high-performance readers, bespoke firmware resulting from two decades of practical research and development specifically targeting the challenging scenarios of working with high density tag populations in many orientations. The device is **optimised straight from the box and gives unparalleled performance** when combined with its simple plug and play software.

The unique design features included in the ATS2128 give you more capacity over tag deviation and efficiently mitigates the effects of de-tuning when tags are mounted against different types of materials*. The ATS2128 gives best in class of RFID reading performance, particularly in applications where there is a very dense collection of tags such as those encountered in retail.

It is incumbent on the employer **to have a duty of care** for all its **employees**, resulting in taking all necessary precautions to ensure the physical and mental wellbeing of all the employees. The Artemis ATS2128 with its unique design features such as an optimised shaped field pattern to ensure that minimal effort is required to obtain maximum tag capture. The device is perfectly balanced to deliver optimum user comfort when used for prolonged periods to perform stock counts. The ATS2128 **allows the user to have less fatigue, repetitive strain** and other possible related conditions.

The ATS2128 also considers **Specific Absorption Rate (SAR)** a mandatory requirement whilst often overlooked: SAR is a measure of the rate at which energy is absorbed by the human body when exposed to a radio frequency electromagnetic field. The ATS2128 Design minimises SAR and is amongst the safest of its kind on the market.

The unique user interface is augmented with audible feedback to give confidence of continuous RFID capture.

The LED lights give visual feedback as to performance and battery charge status when the device is fitted into its charging cradle.

All Rfid readers when put down, due to say a distraction or other activity can simply blend into the background (potential as to forgetting where last left**) the AS2128 has a unique luminous high visibility frame that can be extended to include the whole front section: to allow the device to instantly stand out against dark or coloured backgrounds.

The AS2128 charging cradle is a simple operation achieved by placing the reader in the vertical cradle: charging automatically activates no pushing, catch/latch or plugs. The high capacity battery charger is equipped with three LED lights that can be seen from a long distance to give the user instant feedback on the charge condition of the device.

* Tag performance is normally quoted as being singular in Air.

** Unique firmware feature reduces the risk of accidental loss

ATS2128 SPECIFICATION

Physical and Environmental Characteristics

Dimensions (LxWxH):	24 cm x 8.8 cm x 18 cm
Weight (inc battery):	700 g / 24 oz (including integral power source)
User input:	Trigger button
User feedback:	Speaker, vibration motor, Side LED
Power:	High capacity Integrated, rechargeable 3.6 volt Lithium Polymer Pack 27 watt hrs
Enclosure materials:	Surface streamlined Durable Polycarbonate

Performance Characteristics

RFID engine:	ATSL custom mode
Communication protocols:	ASCII 2.0 parameterised command set
Memory:	On board Micro SD card 32GB capacity supported. Up to 500 million date and time stamped EPCs can be stored
Compatible Host devices (Bluetooth®):	Any Bluetooth® Host ¹ supporting the Serial Port Profile (SPP) or Human Interface Device (HID) profile (Android, iOS, Linux, Mac, Windows).
Compatible Host devices (USB):	Any USB host with FTDI VCP driver support (Windows, Linux, Mac, Android)

Environmental

Operating Temp.:	-10°C to 50°C (14°F to 122°F)
Charging Temp.:	5°C to 45°C (41°F to 113°F)
Storage Temp.:	Less than 1 month at -20 to +45°C Less than 3 months at -20°C to +35°C
Humidity:	5% to 85% non-condensing
Drop Spec:	Multiple drops to concrete: 4 ft./1.2 m ambient, 3ft / 0.9m across the operating temperature range
Tumble:	500 0.5 metre tumbles at room temperature (1,000 cycles)
Environmental Sealing:	IP54
Electrostatic Discharge (ESD):	± 15kVdc air discharge; ± 8kVdc contact discharge
MIL-STD 810F:	Meets and exceeds applicable MIL-STD 810F for drop, tumble and sealing

RFID Performance

Standards:	EPC Class 1 Gen 2
Nominal read range:	Balanced for optimum performance of high-density tag populations
Nominal write range:	Configurable depending on tag density
Field:	Designer Shaped to maximise tag capture of displays, rails and stacked totes.
Antenna:	Internal Linearly Polarised with field shaping LPSF™

Frequency Range:	EU: 865-868MHz; US: 902-928MHz
Maximum Output Power:	35dBm EIRP Subject to local authority limits.
Field orientation:	Developed to ensure maximum capture with less physical effort, inclined field agnostic to tag orientation. A truly fit for purpose device.

Communication

Bluetooth®:	Bluetooth® Version 4.2
Bluetooth® Profiles:	SPP Profile, HID Profile, Apple iAP2, Bluetooth® Low energy.
Direct USB:	USB to Handheld terminal via patented cradle. (Optional on request)
Bluetooth® Range ² :	100 m
Bluetooth® Pairing:	PIN, Simple Secure Pairing, NFC OOB Pairing

Peripherals and Accessories

External interface:	USB through docking cradle
USB operating modes:	Tethered for real time data capture in conjunction with SmartWedge software. Download of stored scan data.
Desk top charger:	Supplied with charging station. Additional devices and batteries can be purchased separately

Regulatory

EMC:	EN 55032:2015 +AC:2016 EN 55024:2010 +A1:2015 EN 301 489-1 V2.2.0 EN 301 489-3 V2.1.1 EN 301 489-17 V3.2.0
Radio:	EN 300 328 V2.1.1 EN 302 208 V3.1.1
Radio Exposure:	EN 62479:2010
Safety:	IEC 62368-1:2014 EN 62368-1:2014 +AC:2015

For more information please Contact:

Email: info@artemis-itls.com Tel: 0044 (0) 7935 557 166