

# AdvanScan ™ Cloud-based RFID handheld reader







## Cloud-based RFID handheld reader





Video Video

#### **Benefits:**

- Increase of product availability
- · Reduction of out-of-stocks
- Reduction of shrinkage
- Very easy to use: needs only 3 clicks to make an inventory and upload it to the cloud
- Plug and play
- No need of an external computer

#### **Applications:**

- Retail stores
- Libraries
- Hospitals
- Industries
- Warehouses

#### **Product overview**

AdvanScan is an **RFID inventory and encoding system** based on an Android-based handheld reader with a smartphone, and **direct upload** of data **to the cloud** or to a specific server.

AdvanScan obtains the inventory of products in a space with a **high read-rate** (typically above 98%), and uploads the inventory data to the cloud (AdvanCloud).

AdvanScan works with WiFi and avoids the need to use any local computer. It's **plug & play.** 

AdvanScan improves many business processes. Among them:

- Goods in: verifying that the received products are correct against an ASN (Advance Shipping Notice)
- Inventory
- Pick list: items to take from the backroom to the sales floor
- Discrepancies: differences between the RFID inventory and the stock in the IT system of the retailer
- Returns: items to send back to the distribution centre or to another store

AdvanScan can be used for encoding RFID tags on its own or with an RFID printer, by combining it with AdvanPrint (RFID printer solution).

This illustration shows the available functions.



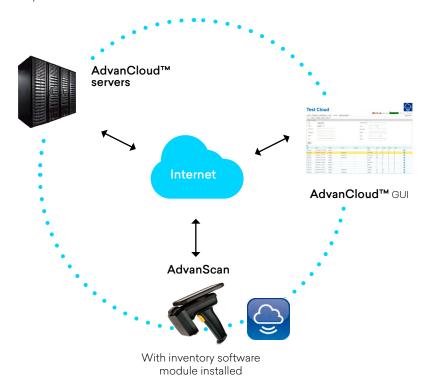


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#### The process is as follows:



- The user clicks on "Create new inventory" or selects an unfinished inventory for continuing with it
- The user waves AdvanScan near the items and hears a "beep" sound while tags are being read
- 4. While AdvanScan is reading tags, it also downloads from the cloud descriptive information and images of the products, and shows them on the screen
- 5. When Inventory is finished, the user uploads the data to the cloud by clicking "upload to the cloud"







#### **Product features**

AdvanScan is designed to read and write to EPC Class 1 Gen 2 (ISO 18000-6C) tags.

AdvanScan can make a **visual inventory**: product description and images of the read items can be shown on the screen. This allows the user to easily verify which products have been identified, accelerating processes and reducing errors.



AdvanScan is available with 3 different handheld reader models.





# Cloud-based RFID handheld reader

# Mechanical specifications of handheld model 1: with 2W output power and recharging cradle



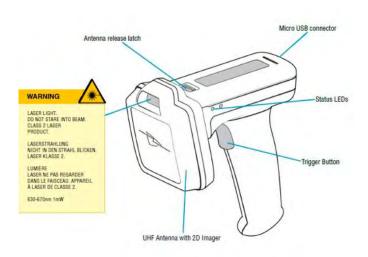


Operating Frequency	865MHz-868MHz / 920-925MHz / 902-928MHz				
CPU	Cortex-A53 Octa-core 2.5GHz				
RAM+ROM	3GB+32GB				
Operating System	Android 8.1				
Communication	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna 4G Location services				
Power supply	Li-ion, rechargeable, 8000mAh				
Output Power	2W (33 dBm)				
Interface	USB 2.0 Type-C, OTG				
Transponder Protocol Standard	EPC C1 GEN2 / ISO18000-6C				
Antenna	Circular polarization (4dBi)				
Barcode scanning imager	Included				
Sensors	Gravity sensor, light sensor, proximity sensor				
Temperature range	-4oF to 122oF / -20oC to 50oC				
Humidity	5%RH - 95%RH non condensing				
Sealing	Host IP65 per IEC sealing specifications				
Dimensions	164.2 x 80.0 x 24.3 mm 6.46 x 3.15 x 0.96 in				
Weight	654 g / 23.07 oz				
Color	Black				
Display	5.2" IPS FHD 1920x1080				
Touch panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported				



# Cloud-based RFID handheld reader

# Mechanical specifications of handheld model 2: with 29 dBm output power and recharger, big screen

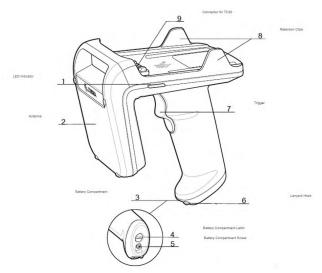


Operating Frequency	865-868 MHz, 902- 928 MHz					
Compatible host devices	Android					
User indicators	Speaker, vibration motor, LED					
Power supply	Removable, rechargeable 4.2 volt Lithium Polymer 2200 mAh battery pack, 8.4 watt hrs					
Output Power	10mW to 800mW					
Interface	Bluetooth					
Transponder Protocol Standard	EPC Class1 Gen2					
Nominal read range	Up to 4m / up to 13 ft.					
Nominal write range	Up to 1.22 m / up to 4 ft.					
RFID performance field	150-degree forward facing (approx.) measured from front of device					
Antenna	Detachable, Circularly Polarized with optional 2D scanner					
Barcode scanning imager	Motorola SE4500 2D imager					
Sensor resolution	752 x 480 pixels					
Barcode scanning field of view	Horizontal: 40°, Vertical: 25°					
Temperature range	-20°C to +60°C					
Dimensions	18.0 cm x 17.5 cm x 7.5 cm 7.1 in x 6.9 in x 2.9 in					
Material Housing	Polycarbonate					
Weight	580 g (1.28 lb)					
Color	Black					
General regulatory	Approved for use in the US, Canada, Europe, China, Singapore, Taiwan, Korea and Australia					
Electrical Safety regulatory	Certified to UL60950-1, CSA C22.2 No. 60950-1, IEC 60950-1, EN 60950-1					
EMI/RFI regulatory	USA: FCC Part 15 Canada: ICES 003 Class B EU: EN 301 489-3, EN 301 489-1, EN 301 489-17, EN 302-208, EN55022 Class B, EN55024					
Laser Safety regulatory	IEC Class2/FDA Class II in accordance with IEC60825-1/EN60825-1, 21CFR1040.10					



# Cloud-based RFID handheld reader

# Mechanical specifications of handheld model 3: with 1W output power and recharging cradle

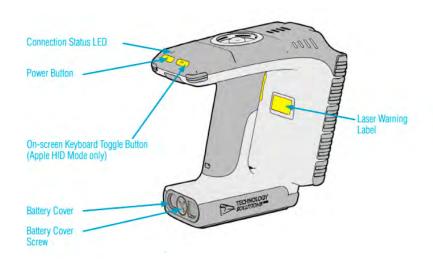


Operating Frequency	US: 902-928MHz; 0 — 30 dBm (EIRP) EU: 865-868MHz; 0 — 30 dBm (EIRP) Japan: 916-921MHz (w LBT), 0 — 30 dBm (EIRP)				
Compatible host devices	Zebra TC20 mobile computer				
Host connection	Electrical 8-pin connection				
User indicators	LEDs				
User input	Trigger				
Power supply	PowerPrecision+ Li-Ion 3160 mAh battery				
Interface	Electrical 8-pin connection				
Transponder Protocol Standard	EPC Class1 Gen2; EPC Gen2 V2				
Read rate	Up to 700 tags/sec				
Nominal read range	19.7+ ft. / 6+ m				
Temperature range	-10°C to 50°C / 14°F to 122°F				
Dimensions	5.9 in. x 3.1 in. x in. 5.2 in. 14.9 cm x 7.9 cm x 13.3 cm				
Weight	10.9 oz. / 310 grams (sled with battery)				
Color	Black				
Accessories	1-Slot Charging Cradle 5-Slote Charging Cradle				
Electrical Safety regulatory	UL 60950-1, CAN/CSA C22.2 No. 60950-1, IEC 60950-1, EN 60950-1				
EMI/EMC regulatory	FCC Part 15 Subpart B Class B; ICES 003 Class B; EN 301 489-1; EN 301 489-3; EN55024; EN 55032 Class B				
RF Exposure	EU: EN 50364, EN 62369-1, EN 50566, EN 62311; USA: FCC Part 2. 1093 OET Bulletin 65 Supplement 'C'; Canada: RSS-102				



## Cloud-based RFID handheld reader

# Mechanical specifications of handheld model 4: with 1W output power and cradle



Operating Frequency	865-868 MHz, 902- 928 MHz				
Compatible host devices	Android				
User indicators	Speaker, vibration motor, LED				
Power supply	Rechargeable Lithium Ion removable battery pack (11.25V, 2950mAh, 33.2Wh)				
Output Power	10mW to 1 W				
Interface	Bluetooth				
Transponder Protocol Standard	EPC Class1 Gen2				
Nominal read range	Up to 6m / up to 19 ft.				
RFID performance field	110-degree forward facing (approx.) measured from front of device				
Antenna	Circularly Polarized				
Barcode scanning imager	Motorola SE4500 2D imager, Intermec EX25				
Sensor resolution	752 x 480 pixels				
Barcode scanning field of view	Horizontal: 40°, Vertical: 25°				
Temperature range	-20°C to +55°C / -4°F to 131°F				
Dimensions	177 x 94 x 170 mm (LxWxH) 6.9 in x 3.7 in x 6.7 in				
Material Housing	Polycarbonate and TPU				
Weight	860 g (1.89 lb)				
Color	Black				
General regulatory	Approved for use in the US, EU and Australia				
Electrical Safety regulatory	UL60950-1, CSA C22.2 No. 60950-1, IEC 60950-1, EN 60950-1				
EMI/RFI regulatory	USA: FCC Part 15, EU: EN 301 489-3, EN 301 489-1, EN 301 489-17, EN 302-208, EN55022 Class B, EN55024				
Laser Safety regulatory	IEC Class2/FDA Class II in accordance with IEC60825-1/EN60825-1, 21CFR1040.10				



## Cloud-based RFID handheld reader

## **Product codes for ordering**

ADSN	-	В	-	М	-	н	-	FF	
									B = Handheld Brand
		CHW							Handheld 1
		TSL							Handhelds 2 and 4
		Zebra							Handheld 3
									M = Model
				C72					Handheld model 1
				1128					Handheld model 2
				RFD2000					Handheld model 3
				1166					Handheld model 4
									H = Host device
						001			Handheld 1
						X001			Handheld 2 and 4
						TC20			Handheld 3
									FF = Frequency bands
								EU	865,6 MHz - 867,6 MHz
								US	902,0 MHz - 928,0 MHz
								IN	865,0 MHz - 867,0 MHz
								AU	918,0 MHz - 926,0 MHz
								CN	920,5 MHz - 924,5 MHz

Examples:

#### ADSN-CHW-C72-001-EU

- AdvanScan model 1
- 865,6 MHz 867,6 MHz frequency band

#### ADSN-Zebra-RFD2000-TC20-EU

- AdvanScan model 3
- 865,6 MHz 867,6 MHz frequency band

#### ADSN-TSL-1128-X001-US

- AdvanScan model 2
- 902,0 MHz 928,0 MHz frequency band



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