Technology Solutions for Retail

AdvanPay-120

UHF RFID reader with a limited read zone







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Advantages:

- Highly controlled read zone
- Automatic integration with most software applications through hardware keyboard emulation
- Easy installation and supervision
- For retailers:
- Shorter queues, thanks to a much faster payment process
- Better customer shopping experience, derived from shorter payment times
- Lower employee costs
- Simultaneous item detection and EAS flag activation/ deactivation

Applications:

- Points of sale
- Event registration
- Document and product tracking
- RFID programming
- Verification of tagged items

Products

AdvanPay-120 is a high-power UHF RFID reader that integrates:

- An antenna with a highly confined read zone
- Hardware keyboard emulation. No software needs to be installed on the POS.
- On-board speaker
- Features specifically designed to meet the needs of retail store staff

AdvanPay-120 has **3 operating modes**, which can easily be selected at any time:

- Payment mode (green light)
- Return mode (red light)
- Read-only mode (blue light)

AdvanPay-120 is available in **three models:**

1. Flush mount (installed flush into a surface)



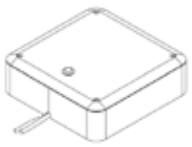


2. Under-counter mount (installed beneath the surface)





3. Desktop stand (placed on top of a surface)





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Key Features

AdvanPay-120 has a **very limited read area**, even with far-field RFID tags. It only reads tags located slightly above its surface, which prevents reading unwanted RFID tags.

AdvanPay-120 includes a hardware keyboard emulator (USB Type-B connector) that enables very easy and fast integration with point-of-sale applications, without having to modify those software applications. The keyboard emulator is easily configured to send the key codes required by each software application.

AdvanPay-120 is standalone. It only needs to be powered with the supplied PoE injector and connected to a computer through the supplied USB cable. AdvanPay-120 can optionally be connected to an Ethernet network switch. This gives AdvanPay the advantages of an Ethernet-enabled device: remote control, centralized management, etc.

AdvanPay-120 also offers the option of using a micro USB Type-B cable for point-to-point Ethernet connectivity.

Thanks to its size and mounting bracket, AdvanPay-120 is the perfect choice for applications such as points of sale, document tracking and RFID programming stations.

In retail stores, AdvanPay-120 reads the EPC codes of the products being purchased and, at the same time, deactivates the EAS flag of those products for loss prevention.

AdvanPay-120 can also optionally be connected to an external controller to change the operating mode and to turn AdvanPay on and off.



AdvanPay-120 can be used together with AdvanSafe, AdvanMat or AdvanGate to provide a complete loss prevention system based entirely on UHF RFID.
AdvanPay is available in white or black, according to customer needs.

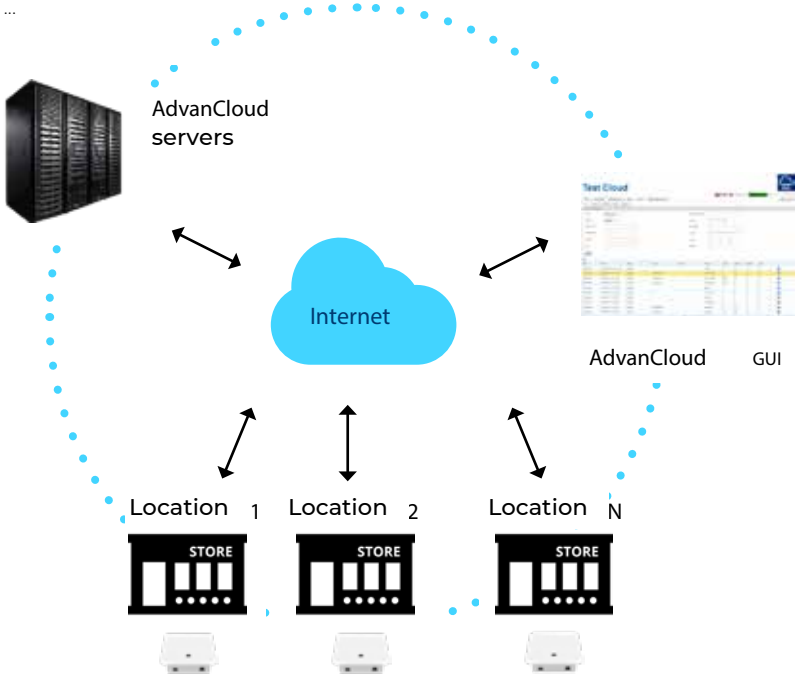
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AdvanCloud Connection

AdvanPay can optionally connect to AdvanCloud, a cloud-based software platform. The EPC codes of the RFID tags read are sent to AdvanCloud. This information can be analyzed for **business intelligence purposes:**

- Products sold
- Returned products
- Cross-selling
- ...



Key Functions

- Automatically extracts the EAN13 from the EPC
- Includes a hardware keyboard emulator that integrates AdvanPay-120 with almost any POS software very quickly, without changing the POS software or installing additional software on the POS
- For retail applications, tags can be encoded with EAN13, EAS flag and a serial number
- When write mode is activated, output power can increase automatically, and decrease automatically after exiting write mode
- Allows the transmit and write power to be configured
- Automatically sends the EPC or EAN13 to the PC

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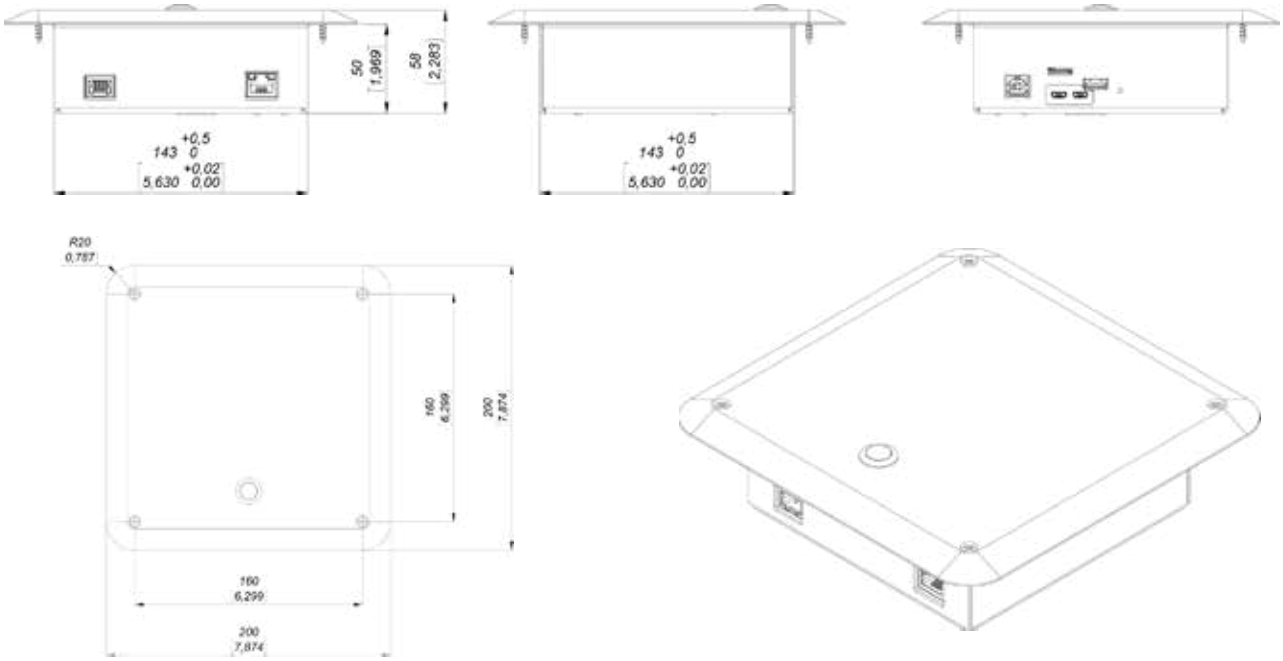


Radio Frequency Specifications

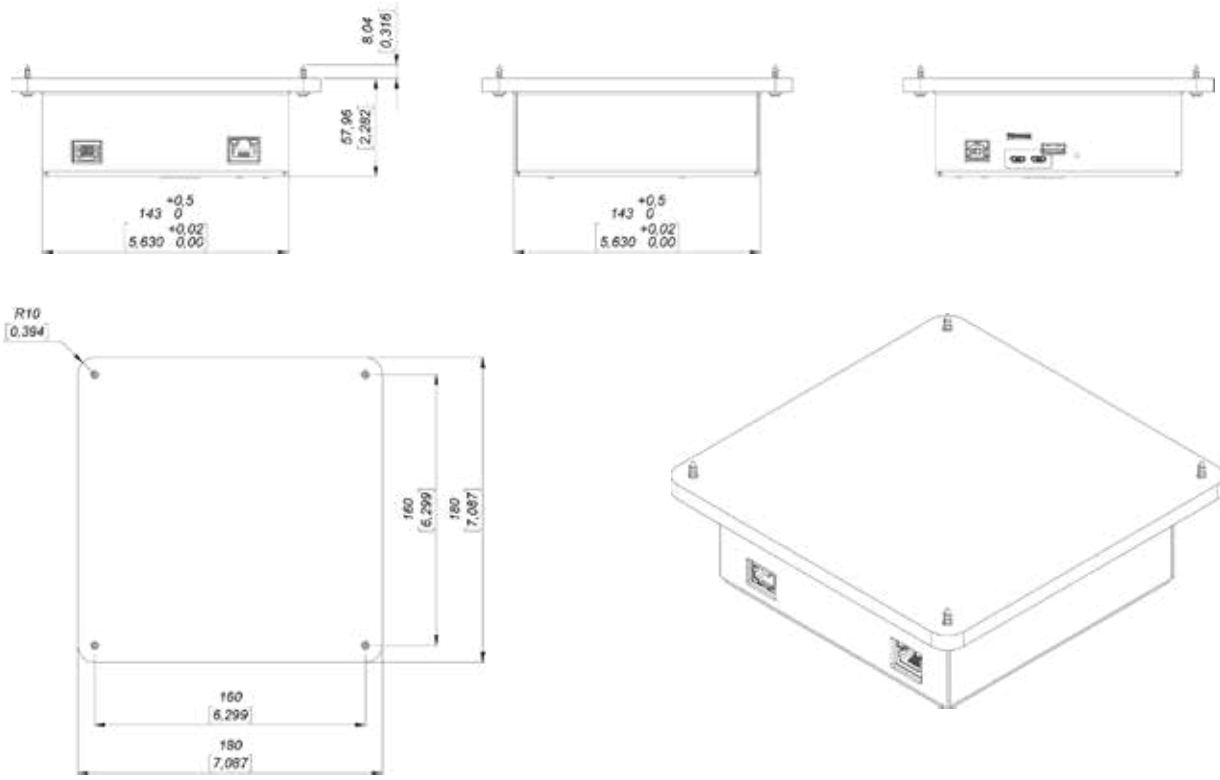
Air protocol interface	EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C
Frequency	FCC (NA, SA) (917.4 - 927.2) MHz ETSI (EU) (865.6 - 867.6) MHz TRAI (India) (865 - 867) MHz KCC (Korea) (917 - 923.5) MHz MIC (Japan) (916.9 - 923.4) MHz ACMA (AU) (920 - 926) MHz NZ (New Zealand) (922 - 927) MHz SRRC-MII (People's Republic of China) (920.125 - 924.875) MHz MY (Malaysia) (919.0 - 923.0) MHz ID (Indonesia) (923.0 - 925.0) MHz PH (Philippines) (918.0 - 920.0) MHz TW (Taiwan) (922.0 - 928.0) MHz MO (Macao) (920.0 - 925.0) MHz RU (Russia) (866.0 - 868.0) MHz SG (Singapore) (920.0 - 925.0) MHz VN (Vietnam) (866.0 - 869.0) MHz TH (Thailand) (920.0 - 925.0) MHz AR (Argentina) (915.0 - 928.0) MHz HK (Hong Kong) (865.0 - 868.0) MHz BD (Bangladesh) (925.0 - 927.0) MHz Brazil (917.4 - 927.2) MHz using channel selection Chile (916 - 928) MHz using channel selection Peru (917.4 - 927.2) MHz using channel selection Taiwan (922.6 - 927.2) MHz using channel selection Open region (859 - 873) MHz and (915 - 930) MHz (using channel selection)
RF power	Programmable from 0 dBm to +27 dBm in 0.5 dBm steps
RF antenna	Integrated circularly polarized antenna. The RF field is confined to avoid reading unwanted tags.
Data communication	Ethernet: IEEE 802.3 up to 100 Mbps USB HID Type-B to emulate a barcode reader USB console (micro USB Type-B connector) maintenance port Point-to-point Ethernet over USB (micro USB Type-B connector)
Power	Power over Ethernet (PoE) • Compatible with IEEE 802.3af (Type I) and IEEE 802.3at (Type II) • Power class: Class 3/4 • Isolated from the Ethernet cable • Nominal values and tolerances • PSE Type 1: 48 V (-4 V/+9 V), max. power 15.4 W; PSE Type 2: 56 V (-6 V/+1 V), max. power 30 W Integrated battery for the RTC chip (CR2032)
Integrated actuators	Buzzer 2-watt speaker (only available in CF versions)
LED indicators	A three-color LED indicates the active operating mode: • Payment mode (green) • Return mode (red) • Read-only mode (blue)
Application software compatibility	Easily integrates with any application software through keyboard-wedge emulation
Power consumption	Idle consumption < 2.5 W Default consumption (@10 dBm) < 7 W Maximum consumption (@27 dBm) < 9 W
Temperature	Operating temperature: -20 °C to +50 °C Storage temperature: -30 °C to +60 °C
Dimensions (flush mount)	200 x 200 x 62 mm (7.87 x 7.87 x 2.44 in.
Dimensions (under-counter)	180 x 180 x 56 mm (7.09 x 7.09 x 2.20 in.
Dimensions (desktop)	200 x 200 x 78 mm (7.87 x 7.87 x 3.07 in.
Weight (flush mount)	935 g (2.06 lb)
Weight (under-counter)	820 g (1.81 lb)
Weight (desktop)	1330 g (2.932 lb)

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Mechanical Specifications (counter flush mount):



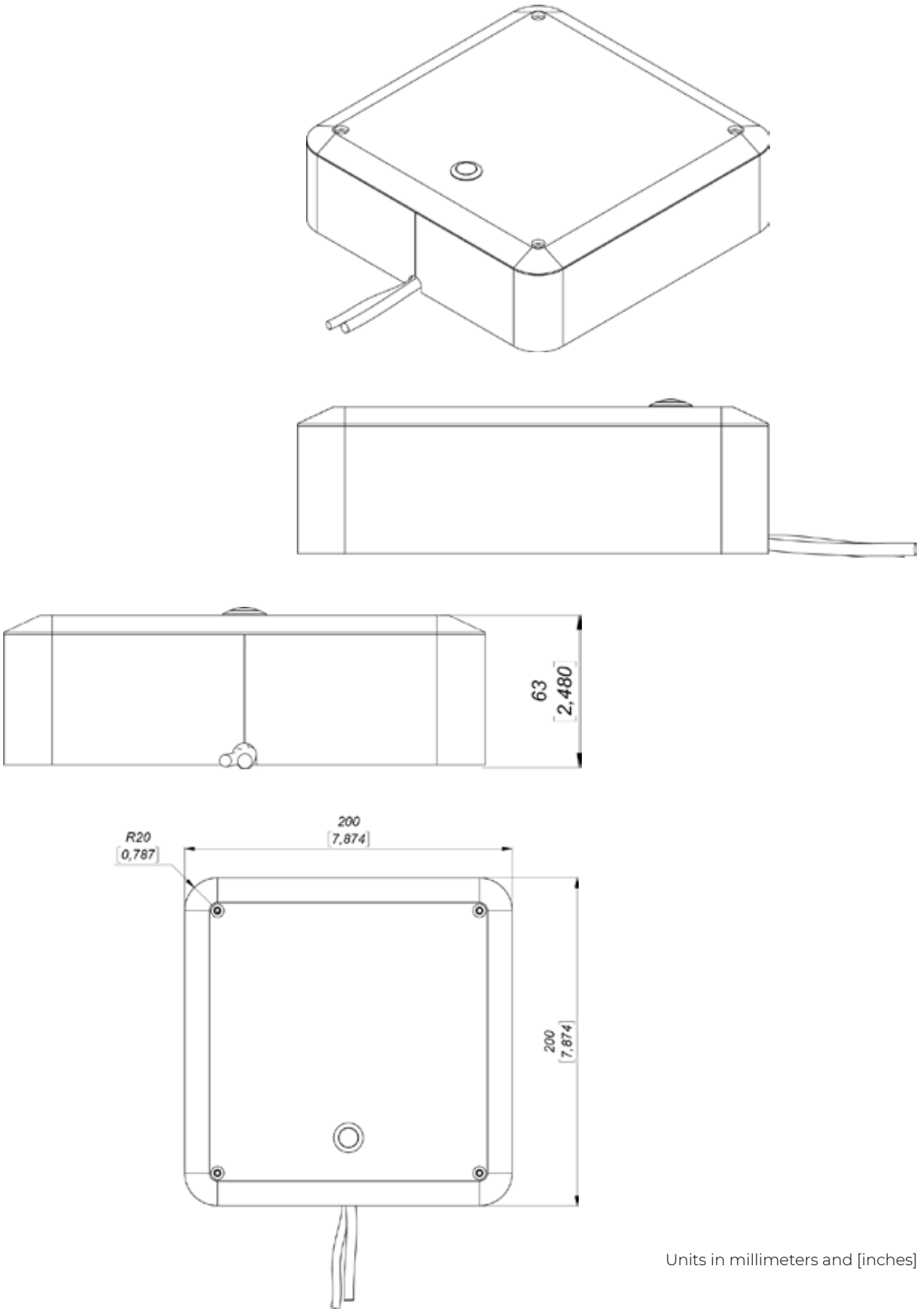
Mechanical Specifications (under-counter mount):



Units in millimeters and [inches]

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Mechanical Specifications (desktop mount):



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Ordering Product Codes

ADPY	-	C	M	-	FF	-	mmm	
								C = **confined**
		C						Confined read zone
								M = **mount**
			U					Under-counter mount
			F					Counter flush mount
			D					Desktop installation
								FF = **frequency band**
					EU			865.6 MHz - 867.6 MHz
					US			902.0 MHz - 928.0 MHz
								Model
							120	Model number

Examples:

ADPY-CU-EU-120:

- - AdvanPay
- Confined
- Under-counter mount
- Frequency band: 865.6 MHz - 867.6 MHz
- Model 120

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