# AdvanPay-160 ™

## RFID reader for points of sale with hard tag detacher

**Watch a video of AdvanPay on Youtube**

### Benefits:

- Increases the speed of payment at cash registers
- Combines 2 processes (hard tag detachment and product identification)
- Automatic integration with most software applications, through keyboard wedge
- Highly confined reading area
- Easy installation and monitoring
- For retailers:
  - Queues reduction, thanks to a much faster payment process
  - Improved customer shopping experience, derived from a shorter payment time

### Applications:

- Point of sales
- Registering at events
- Document and product tracking
- RFID programming
- Verification of tagged items

### Product overview

AdvanPay-160 is a high power **RFID reader for points of sale** with **hard tag detacher** that **increases the speed of payment** at cash registers.

AdvanPay-160 **merges 2 processes**:

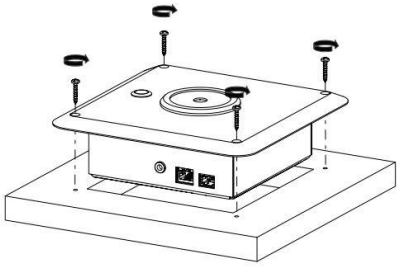
1. Hard tag detachment
2. Product identification

AdvanPay-160 integrates:

- An antenna with a highly confined reading area
- A hard tag detacher
- Keyboard wedge by hardware. It is not necessary to install any software at the POS.
- Functionalities specifically designed to address the needs of staff at retail stores, libraries or other spaces

AdvanPay-160 has **3 operation modes**, that can be easily selected at any time:

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



### The process is as follows:

1. The user places an item with a hard RFID tag over AdvanPay-160
2. AdvanPay-160 reads the code of the RFID tag, converts it to GTIN14, GTIN13 or GTIN12 and uses keyboard wedge to automatically introduce the code in the till software
3. AdvanPay-160 writes on the RFID tag to avoid considering the tag as part of the inventory
4. The user removes the hard tag with the detacher magnet, and leaves the detached hard tag in a drawer

### Product features

AdvanPay-160 has a **highly confined reading area**, even with far field RFID tags. It only reads the tags that are placed slightly above its surface, which avoids reading unwanted RFID tags.

AdvanPay-160 includes **hardware keyboard wedge** (micro USB Type-B connector) that allows a very easy and fast integration with point of sale applications, without having to modify such software applications.

The keyboard wedge is easily configured to send the keyboard codes required by each software application.

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### Product features (cont.)

AdvanPay-160 is **stand alone**. It just needs to be powered with the supplied PoE injector and connected to a computer through the supplied **USB** cable.

AdvanPay-160 can be optionally connected to an Ethernet network switch. This gives AdvanPay the advantages of an **Ethernet-enabled device**: remote control, centralized management, etc.

Thanks to its size and its support piece, AdvanPay-160 is the perfect choice for various applications such as point-of-sales, document tracking and RFID programming stations.

In retail stores, AdvanPay-160 reads the GTIN14, GTIN13 and GTIN12 codes of the products being purchased while simultaneously **deactivating the EAS flag** of such products, for loss prevention.

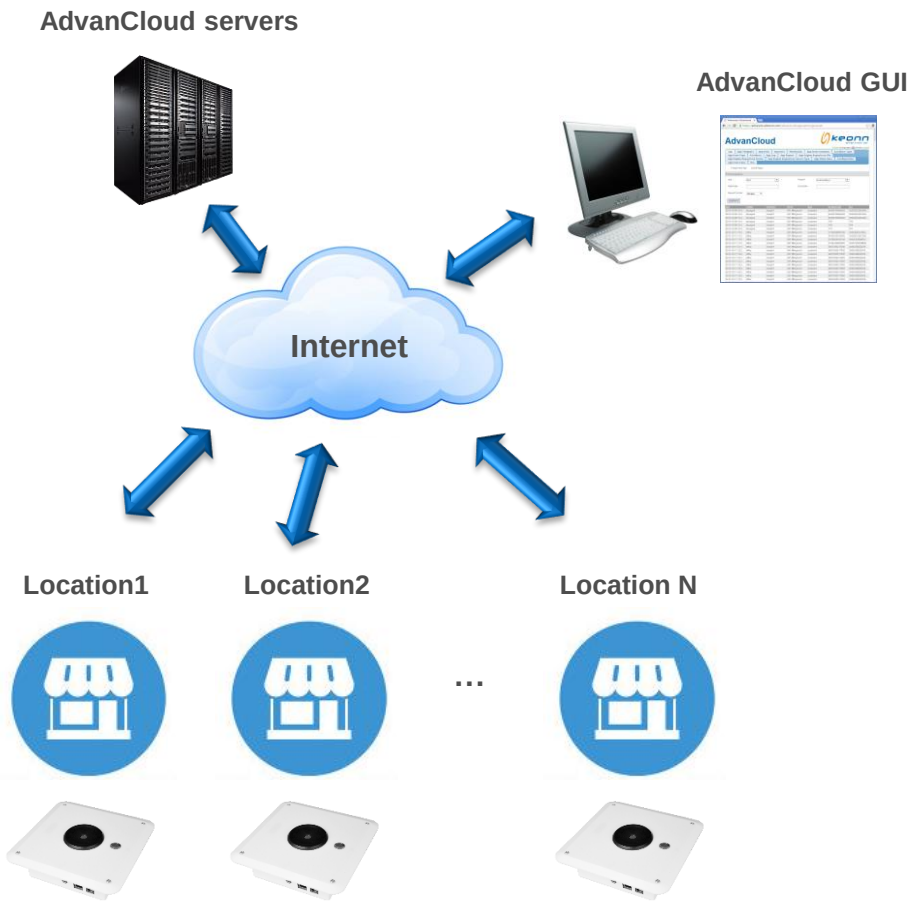
AdvanPay-160 can be used together with AdvanSafe or AdvanMat to provide a **complete loss prevention system** fully based on RFID UHF.

### Connection to AdvanCloud

AdvanPay can be optionally connected to AdvanCloud cloud-based software platform.

The EPC codes of read RFID are reported to AdvanCloud. This information can then be analyzed for **business intelligence** purposes:

- Products sold
- Products returned
- Cross-selling
- ...

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## RFID reader for points of sale with hard tag detacher

### Radiofrequency specifications

| | |
|---|---|
| Air Protocol Interface | EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C |
| Frequency | FCC (NA, SA) (917.4 – 927.2) MHz<br>ETSI (EU) (865.6 - 867.6) MHz<br>TRAI(India) (865 - 867) MHz<br>KCC (Korea) (917 – 923.5) MHz<br>MIC (Japan) (916.9 – 923.4) MHz<br>ACMA (AU) (920 – 926) MHz<br>NZ (New Zealand) (922 - 927) MHz<br>SRRC-MII (P.R.China) (920.125 – 924.875) MHz<br>Brazil (917.4 – 927.2) MHz by using channel selection<br>Chile(917.4 – 927.2) MHz by using channel selection<br>Peru (917.4 – 927.2) MHz by using channel selection<br>Taiwan (922.600 – 927.2) MHz by using channel selection<br>Open Region (859 – 873) MHz and (915 – 930) MHz<br>(by using channel selection) |
| RF Power | Programmable from 0 dBm to +27 dBm in 0.5 dBm steps. |
| Antenna | Integrated Circular Polarized near-field antenna<br>RF fields is confined to avoid reading unwanted tags. |
| Max tag read distance | < 30 cm |
| Magnet strength | 11 000 gauss |
| Data communications | Ethernet: IEEE 802.3 up to 100 Mbps<br>USB HID to emulate barcode reader |
| Power supply | Power Over Ethernet (PoE):<br>• Supports IEEE 802.3af (Type I) and IEEE 802.3at (Type II)<br>• Power consumption: Class 3<br>On-board battery for RTC chip |
| On-board actuators | Buzzer |
| LED indicators | Three LED for indicating the active operation mode:<br>• Payment mode (green)<br>• Return mode (red)<br>• Read-only mode (blue)<br>When the LED is flashing means that the reader is reading |
| Output | 2 Watt output for 8 ohm loudspeaker |
| Compatibility with software applications | Can be easily integrated with any application software, through keyboard wedge |
| Power consumption | Idle consumption < 2.5 W<br>Default consumption (@10 dBm) < 4 W<br>Max consumption (@27 dBm) < 7 W |
| Temperature range | -20°C to +50°C |
| Dimensions | 200 x 20 x 63 mm (7.87 inches x 7.87 x 2.48 inches) |
| Weight | 1.2 kg (2.31 lb) |

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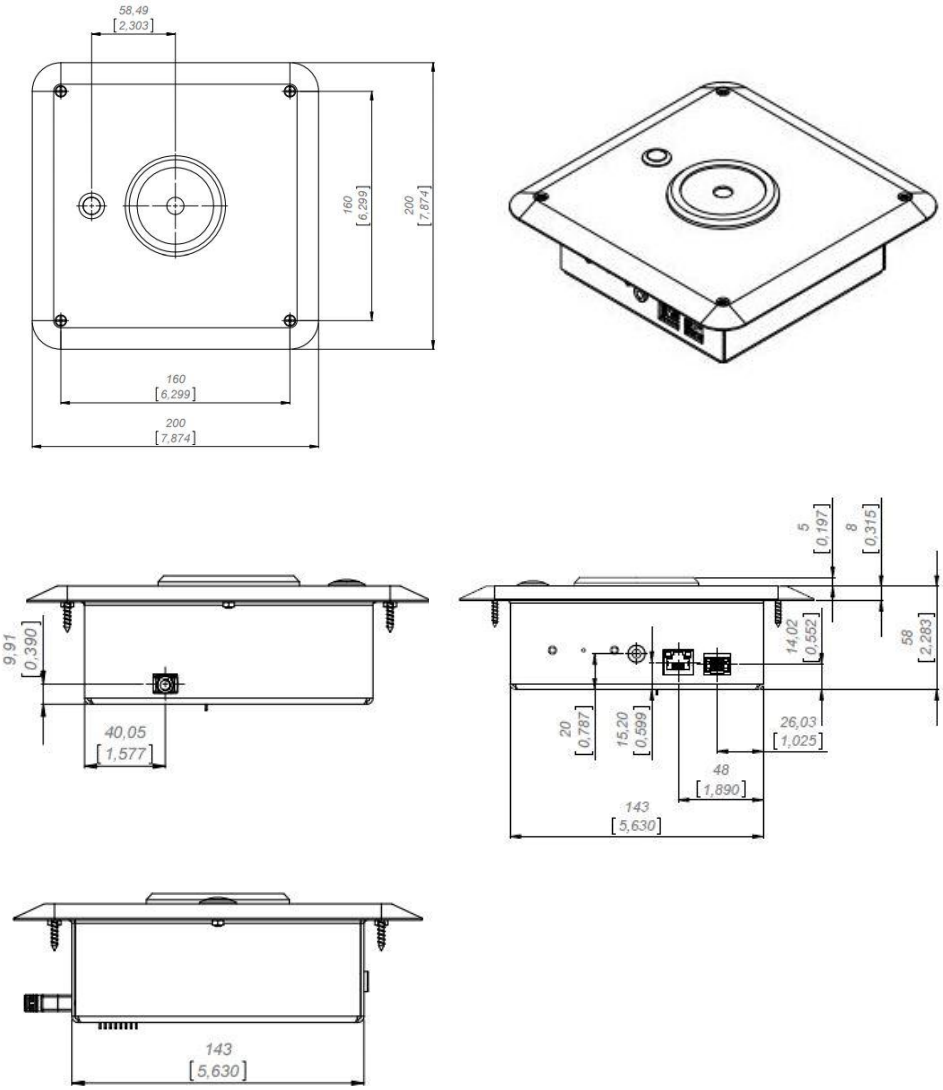
### Mechanical specifications (in mm)




Units in millimeters and [inches]

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### Product codes for ordering

| ADPY | - | C | M | - | FF | - | mmm | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | **C = confined** |
| | | C | | | | | | Confined reading area |
| | | | | | | | | **M = mount** |
| | | | F | | | | | Table flush mount |
| | | | | | | | | **FF = frequency band** |
| | | | | | EU | | | 865,6 MHz - 867,6 MHz |
| | | | | | US | | | 902,0 MHz - 928,0 Mhz |
| | | | | | | | | **Model** |
| | | | | | | | 160 | model number |

For example:

- **ADPY-CF-EU-160:**
  - AdvanPay
  - **C**onfined
  - Table **F**lush mount
  - Frequency band: 865,6 MHz - 867,6 MHz
  - Model 110

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