



**keonn** RFID  
Systems

**AdvanPay-10™**  
RFID UHF reader with  
confined reading area



[Video](#)

### Benefits:

- Highly controlled reading area
- Easy installation and monitoring
- The most cost-effective POS
- For retailers:
  - Queues reduction, thanks to a much faster payment process
  - Improved customer shopping experience, derived from a shorter payment time
  - Reduction in employee costs
  - Simultaneous item detection and EAS flag activation/deactivation

### Applications:

- Points of sales
- Registering at events
- Document and product tracking
- RFID writing
- Verification of tagged items

### Product overview

**AdvanPay-10** is an RFID high performance reader that integrates an antenna with a highly confined reading area.

This RFID point of sale reader provides a solution with the minimum cost. AdvanPay-10 is the most cost-effective model of the AdvanPay family.

AdvanPay-10 requires an external point of sale computer for receiving and sending data. It does not include an on-board computer as AdvanPay-120 and AdvanPay-170.

AdvanPay-10 is available in two different models:

- Flush mount
- Desktop mount



### Main characteristics

AdvanPay-10 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.

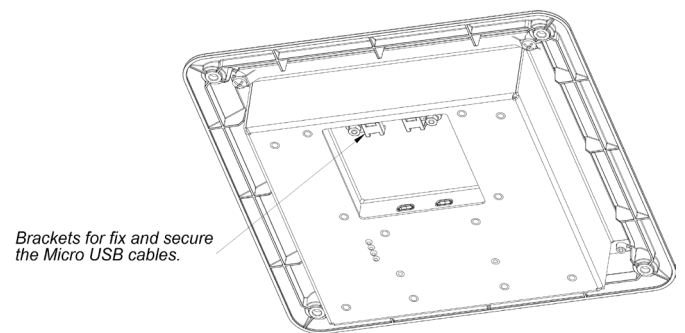
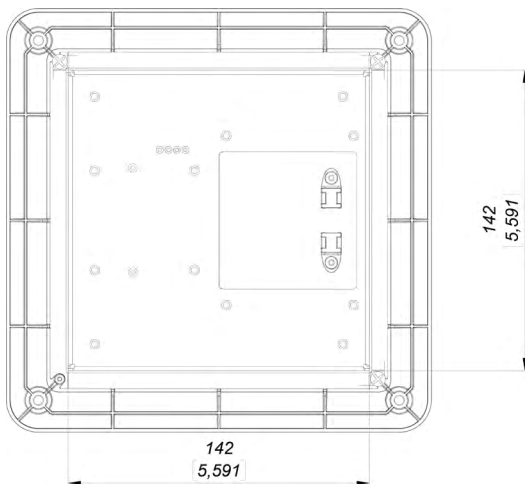
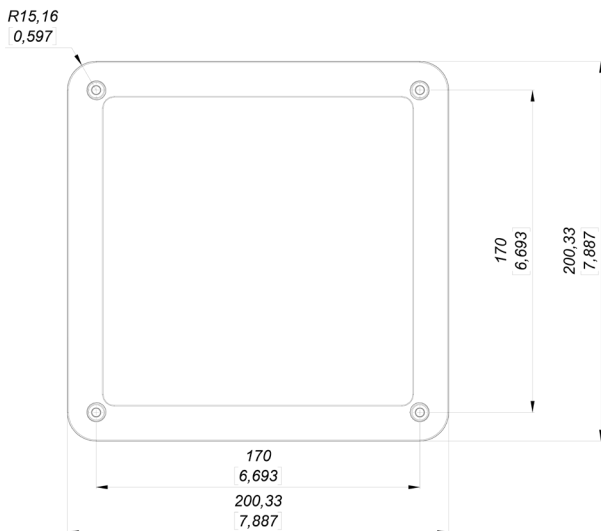
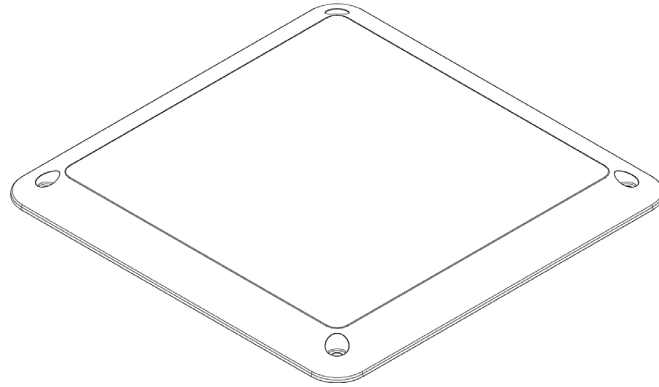
AdvanPay-10 can be used together with AdvanSafe, AdvanMat or AdvanGate to provide a **complete loss prevention system** fully based on RFID UHF.

### Radiofrequency specifications



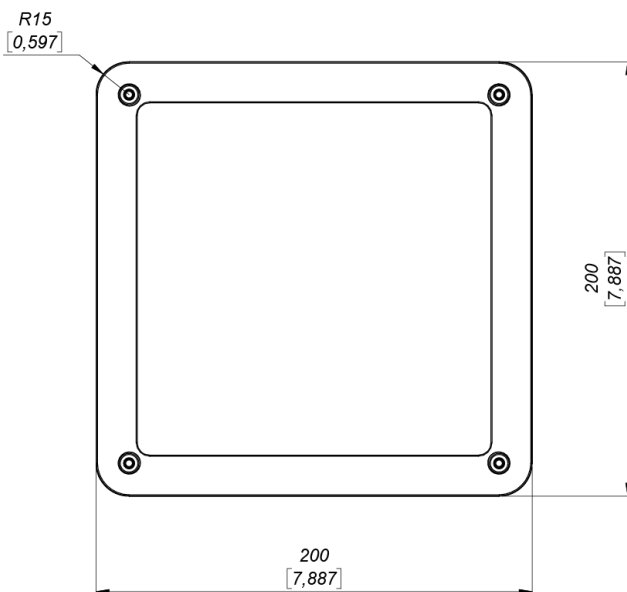
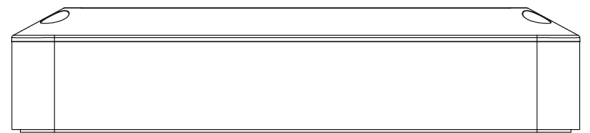
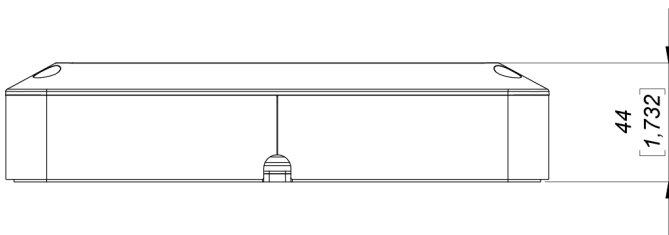
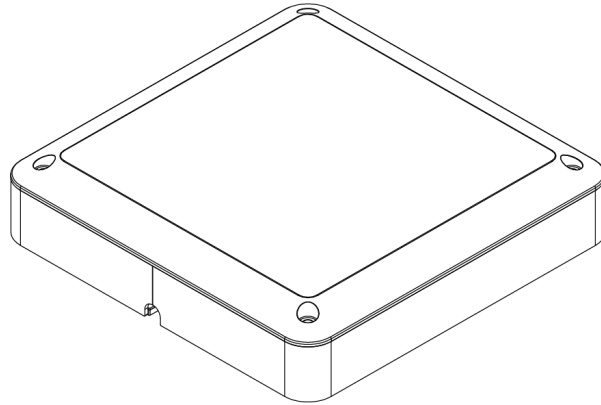
Air Protocol Interface	EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C
Frequency	<p>FCC (NA, SA) (917.4 – 927.2) MHz            ETSI (EU) (865.6 - 867.6) MHz            TRAI(India) (865 - 867) MHz            KCC (Korea) (917 – 923.5) MHz            MIC (Japan) (916.9 – 923.4) MHz            ACMA (AU) (920 – 926) MHz            NZ (New Zealand) (922 - 927) MHz            SRRC-MII (P.R.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 by using channel selection            Chile(916 – 928) MHz by using channel selection            Peru (917.4 – 927.2) MHz by using channel selection            Taiwan (922.600 – 927.2) MHz by using channel selection            Open Region (859 – 873) MHz and (915 – 930) MHz (by using channel selection)</p>
RF Power	Programmable from 0 dBm to +27 dBm in 0.5 dBm steps
RF Antenna	Integrated circular polarized antenna. RF field is confined to avoid reading unwanted tags.
Data communications	Serial over USB <b>USB power connector (micro-B)</b> Communications uses RS232 over USB (FTDI chip)
Power supply	<p><b>USB power connector (micro-B)</b>            The USB data connector is the primary power supply source (USB 2.0 host devices should offer a maximum of 500 mA, and 500 mA it is not enough to conduct RF power higher than 18 dBm / 20 dBm. However, some hardware USB ports may supply more than 500 mA, and whenever that available current is 1 A or higher, this is enough to conduct the maximum RF power -27 dBm-) Avoid cables with high losses:</p> <ul style="list-style-type: none"> <li>• Very long cables</li> <li>• Cables with very high AWG</li> </ul> <p><b>USB power connector (micro-B)</b>            In case the USB data connector does not provide enough power for the reader to work, the USB power connector can be used.</p> <p>When the USB power connector is used, the available power of the reader is only due to the available power at the USB power connector. When using the USB power connector, make sure to supply all required power on the USB power connector.</p>
Power consumption	Idle consumption < 1 W Max RF consumption (@27 dBm) < 4.5 W
Temperature range	-20 °C to +50 °C
Dimensions (flush mount)	200 x 200 x 36,80 mm (7.89 x 7.89 x 1.45 inches)
Dimensions (desktop mount)	200 x 200 x 44 mm (7.89 x 7.89 x 1.73 inches)
Weight (flush mount)	475 g (1.047 lb)
Weight (desktop mount)	780 g (1.720 lb)

**Mechanical specifications:**  
**Flush mount**



Units in millimeters and [inches]

**Mechanical specifications:**  
**Desktop mount**



Units in millimeters and [inches]

### Product codes for ordering

ADPY	-	C	M	-	FF	-	mmm	
								<b>C = confined</b>
		C						Confined reading area
								<b>M = mount</b>
			F					Flush mount
			D					Desktop mount
								<b>FF = frequency band</b>
					EU			865,6 MHz - 867,6 MHz
					US			902,0 MHz - 928,0 Mhz
								<b>Model</b>
							10	Model number

Examples:

#### ADPY-CF-EU-10:

- AdvanPay
- **C**onfined
- **F**lush mount
- Frequency band: 865,6 MHz - 867,6 MHz
- Model 10



Copyright © Keonn Technologies S.L.  
All rights reserved.

Information in this publication  
supersedes all earlier versions.  
Specifications subject to change  
without notice.

