

AdvanPay-20™

Intelligent desktop RFID reader
& writer





Benefits:

- Highly controlled reading area
- Easy installation and configuration
- 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
 - Multiple installation options, over table with anti-sliding system, screwed to the table, undertable or wall.
 - Seamless design on any surface where no screws or holes are visible

Applications:

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

Product overview

AdvanPay-20 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-20 is the most cost-effective model of the AdvanPay family.

AdvanPay-20 has an integrated system on chip (SoC) that allows a stand alone operation.

AdvanPay-20 is currently available as a desktop mount model.

Main characteristics

AdvanPay-20 has a **highly confined reading area**, even with far field RFID tags. It can be configured to only reads the tags that are placed slightly above its surface, which avoids reading unwanted RFID tags.

AdvanPay-20 includes a single USB Type-C connector that allows a very easy and fast connection with point of sales applications.

With its embedded software, it can autonomously manage RFID reads, payments and returns through keyboard wedge or events over the serial protocol.

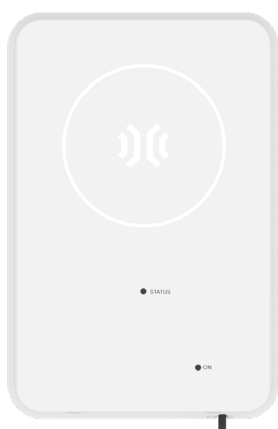
AdvanPay-20 can be easily managed from an external web app or native app to configure and persist any desired RFID logic or configuration. Both apps work over a serial protocol that can also be used to configure the device.

AdvanPay-20 can be used together with AdvanSafe, AdvanMat or AdvanGate to provide a **complete loss prevention system** fully based on RFID UHF.

AdvanPay-20 has full Gen2 and Gen2X protocol compatibility, allowing it to perform any required RFID operation.

AdvanPay-20 has an integrated buzzer and 2 LEDs for user feedback, allowing a simple use without any external screen.

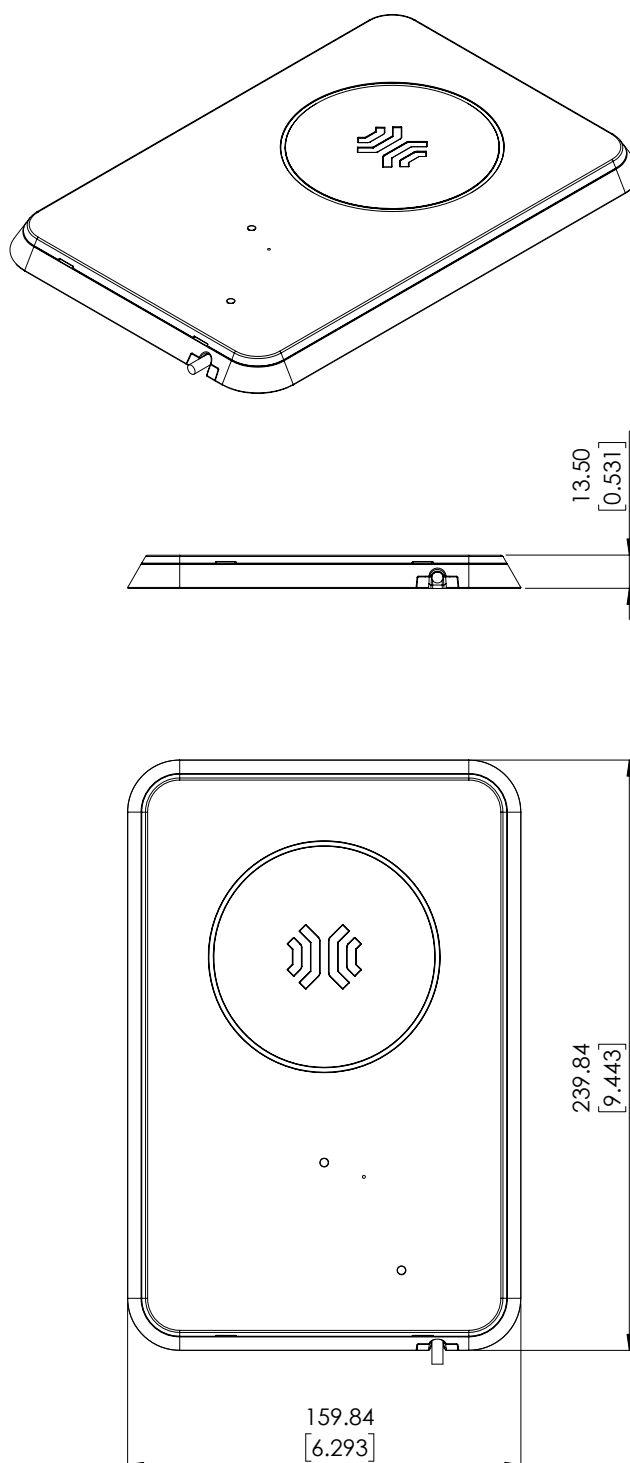
Technical specifications



Air Protocol Interface	EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C
Frequency	Lower Band Any channel plan on the frequency range of 865-868 MHz Upper Band Any channel plan on the frequency range of 902-928 MHz
RF Power	Programmable from 0 dBm to +27 dBm in 0.5 dBm steps
RF Antenna	Integrated confined circular polarized antenna for Desktop versions.
Data communications	USB-C power connector Three independent host interfaces: Configuration over Serial, Data over Serial and HID Keyboard Wedge.
Power supply	USB-C power connector The USB data connector is also used as the power supply source. Minimum required protocol is USB 3.x Avoid USB cables with high losses: <ul style="list-style-type: none"> • Very long cables • Cables with high AWG values <i>Make sure the USB host port offers enough current to operate ADPY-20 at the desired power level. The USB 2.0 specification defines 500 mA as the current offered by USB host ports, this is not enough to operate the reader at its maximum 27 dBm power level. Most modern HW offers enough power to operate the reader at maximum power.</i>
Power consumption	Idle consumption < 700 mW Max RF consumption (@27 dBm) < 3.5 W
Temperature range	-20 °C to +45°C
Dimensions	159,8 x 239,8 x 13,5 mm (6.29 x 9.44 x 0.53 inches)
Weight	550 g (1.213 lb)

Mechanical specifications:

Desktop mount



Units in millimeters and [inches]

Product codes for ordering

ADPY	-	C	M	-	FF	-	mmm	
								C = confined
		C						Confined reading area
								M = mount
			D					Desktop mount
								FF = frequency band
					LB			865 MHz - 868 MHz
					UB			902 MHz - 928 Mhz
								Model
							20	Model number

Examples:

ADPY-CD-LB-20:

- AdvanPay
- **C**onfined
- **D**esktop mount
- Frequency band: 865 MHz - 868 MHz
- Model 20



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