



CATALYST

A Li & Fung Company



RFID ePay160

Features & benefits:

- Increases the speed of payment at cash registers
- Combines 2 processes (hard tag detachment and product identification)
- High power but confined field that avoids stray reads
- Simultaneously detaches loss prevention magnet and extracts the EAN13 from EPC
- Integration with most software applications without need to change such applications, through keyboard emulation
- Easy installation and monitoring
- Queue reduction, thanks to a much faster payment process
- Improved customer shopping experience, derived from a shorter payment time
- Can be used together with Catalyst Safe or Catalyst Mat to provide a complete loss prevention system fully based on RFID UHF.

Catalyst ePay 160 is an RFID desktop reader with hard tag detacher that increases the speed of payment at cash registers.

Catalyst ePay 160 integrates:

- An antenna
- A hard tag detacher
- A keyboard wedge software (keyboard emulator)
- Functionalities specifically designed to address the needs of users at retail stores or check-in / check-out stations

Catalyst ePay 160 has 3 operation modes, actuated by a button on the unit.

- 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 Catalyst ePay 160
2. Catalyst ePay 160 reads the code of the RFID tag, converts it to EAN13 and uses keyboard emulation to automatically introduce it in the point of sale software
3. Catalyst ePay 160 writes on to the RFID tag to avoid considering it 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

Radio frequency specifications

Air ProtocolInterface	EPCglobalUHF Class 1 Gen 2 / ISO 18000-6C
Frequency	FCC (NA, SA) 917.4 MHz –927.2 MHz ETSI (EU, IN) 865.6 MHz -867.6 MHz TRAI (India) 865 –867 MHz KCC (Korea) 917-923.5 MHz MIC (Japan) 916.8 MHz –923.4 MHz SRRC-MII (P.R.China) 920 MHz -925 MHz ACMA (AU, NZ) 920 MHz –926 MHz Open región 859 MHz –873 MHz and 915 MHz –930 MHz
RF Power	Programmable from 0 dBmto +27 dBmin 0.5 dBmsteps.
Antenna	Integrated Circular Polarized near-fieldantenna RF fields is confined to avoid reading unwanted tags.
Max tag read distance	< 30 cm
Data communications	Ethernet: IEEE 802.3 up to 100 Mbps USB HID to emulate barcode reader
Power supply	Power Over Ethernet (PoE): • Supports IEEE 802.3af (Type I) and IEEE 802.3at (Type II) • Power consumption: Class 3 On-board battery for RTC chip
On-board actuators	Buzzer
LED indicators	Three LED for indicating the active operation mode: • Payment mode (green) • Return mode (red) • Read-onlymode (blue) When the LED is flashing means that the reader reading
Output	2 Watt output for 8 ohm loudspeaker
Magnetdetacher	Embedded detacher for hard tags
Compatibility with software applications	Can be easily integrated with any application software, through keyboard wedge
Power consumption	Idle consumption < 2.5 W Default consumption (@10 dBm) < 4 W Max consumption (@27 dBm) < 7 W
Temperature range	-20°Cto +50°C
Dimensions	200x 20 x 63 mm (7.87inches x 7.87 x 2.48inches)
Weight	1.2 kg (2.31 lb)