



ACR89U-A1

Handheld Smart Card Reader



Advanced Card Systems Ltd.
Card & Reader Technologies

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Product Overview



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ACR89 PIN-pad Reader

The ACR89 PIN-pad Reader is the second generation of ACR88. It is a versatile handheld smart card reader from ACS's Smart Card Reader with PIN-pad product family.

Its main distinctions with respect to ACR88 are:

- Rechargeable Li-ion battery
- Long battery life
- USB firmware upgradeability
- Larger programmable memory
- High performance 32-bit RISC processor





ACR89U-A1
(Standard Version)

ISO 7816 Class A, B, C
Memory Cards (ICC Slot 0)



PTR89
(Thermal Printer for ACR89)



ACR89U-A2
(Contactless Version)

Standard + ISO 14443, FeliCa, NFC Tags



Product Features



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Product Features

USB Host Interface
 USB Full Speed (12 Mbps)
 Protocol: USB CCID

Card Type Support
 2 Full-sized Smart Cards + 3 SAM
 ISO 7816 Class A , B, C
 MCU with T=0 and T=1 Protocol

Smart Card Interface
 PC/SC
 CCID
 Secure PIN Entry (SPE)

Operating System Support
 Windows®, Linux®, Mac OS®,
 Android™*



Memory
Third Party Applications:
 512 KB/1 MB NOR Flash
Data Storage:
 384 KB Serial Flash
 64 KB EEPROM

Standalone Mode
 Embedded FreeRTOS
 Lithium-ion Battery: 3.7 V, 900 mAh

Built-in Peripherals
 Graphical LCD with Backlight
 21 characters × 8 lines
 Keypad: 20 keys
 4 tri-colored LEDs – Status Indicator

Certifications/Compliance
 CE , FCC, RoHS 2,
 Microsoft® WHQL

Other Features
 Firmware Upgradeable
 Optional Thermal Printer (PTR89)

*Visit www.acs.com.hk for the list of supported devices.

Optional



PTR89 (ACR89 Thermal Printer)



Product Value



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Cost Effective

*All in one design with powerful add-ons at the price of one
(PIN-pad + LED + LCD + Contact Support + Printer + Rechargeable Battery)*

High Security

- *Multiple SAM Slots*
- *Dual Smart Card Interface*
- *Secure PIN Entry*
- *Mutual Authentication*

Customer Convenience

- *Easy to read and use*
- *Highly durable and color-coded keypad*
- *Firmware upgradeable*
- *Thermal printer available*

Innovative

- *Ergonomically designed*
- *Long battery life (handles up to 200 transactions)*
- *CCID and PC/SC-compliant*
- *Faster processing time at low cost*



Product Application



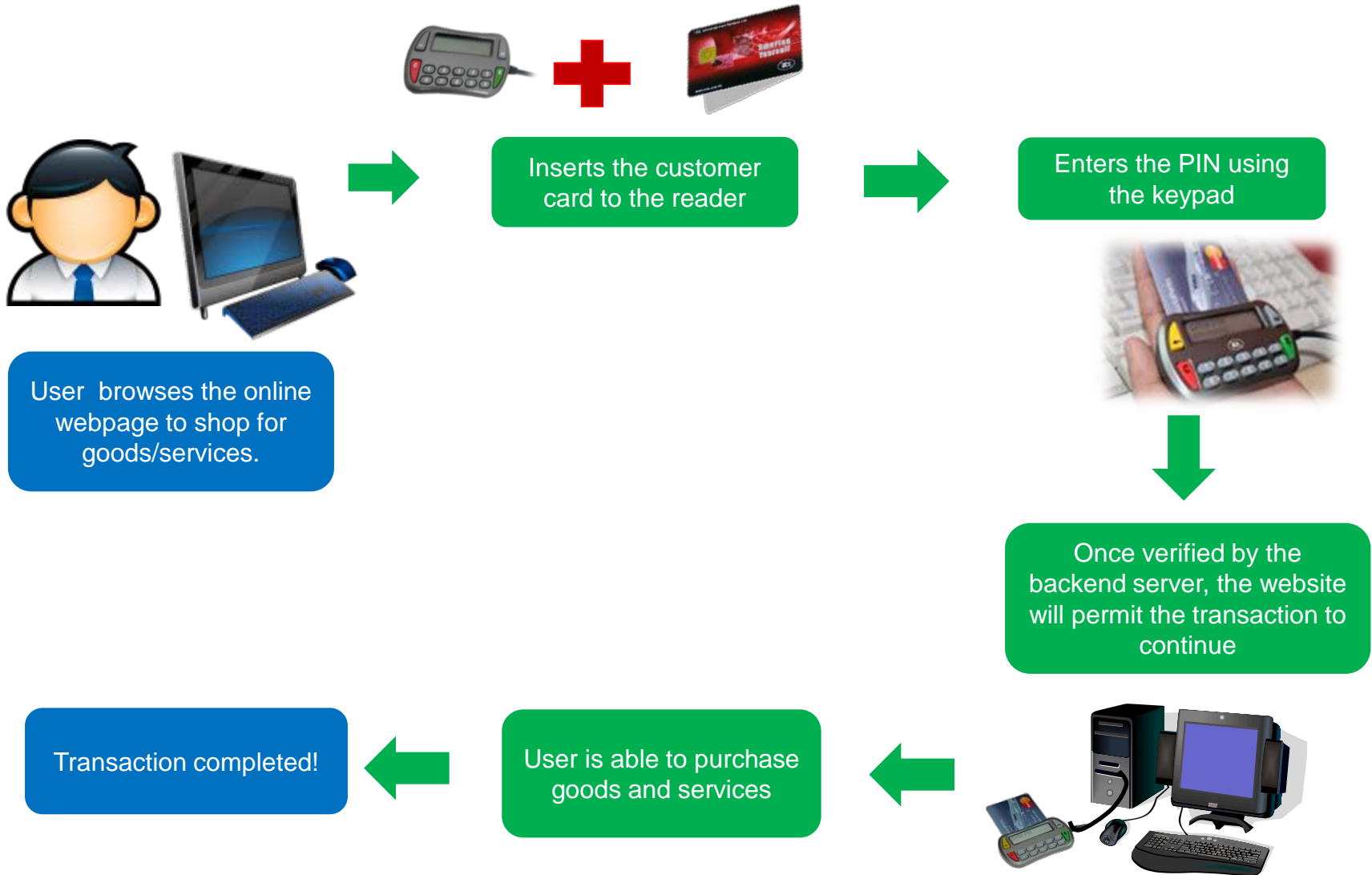
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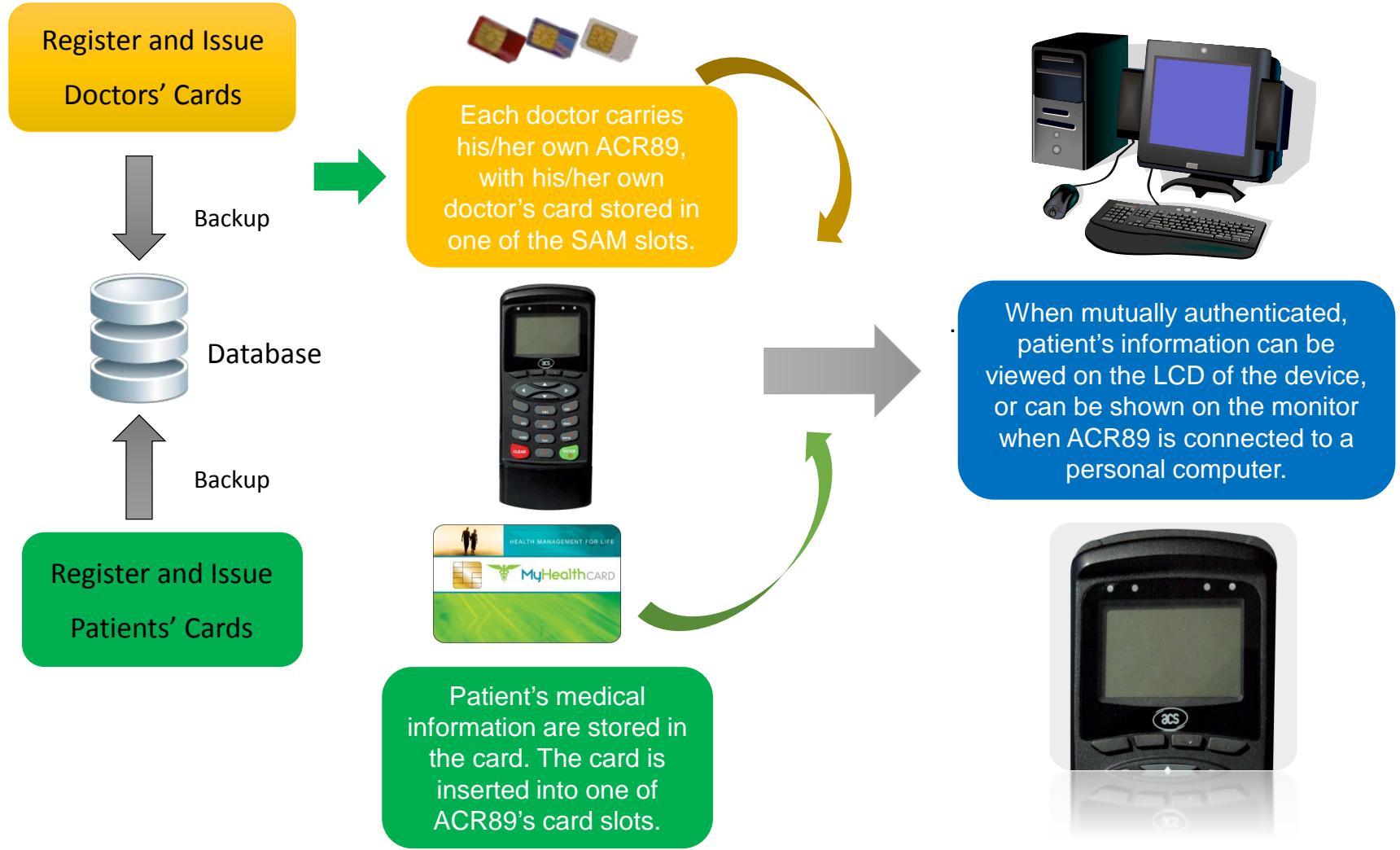
Product Application



Sample Application



Sample Application





Thank You!

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www.acs.com.hk



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