

# MSC Unattended Payment Solution



**The MSC** family of unattended payment solutions enables payment with all card types at self-service and unattended points of sale.

The MSC unattended payment solution supports online and offline payments for both smartcard and magnetic stripe cards and is fully compliant with EMV Level 1 and 2 requirements. With its modular design it can support applications with or without PIN for cardholder verification. It is suitable for all Visa and MasterCard transaction types as well as local and international e-purse, credit and debit card schemes.

## Advanced security and superior reliability

The modules have been specifically designed to meet the stringent requirements for securing transactions and support most national and international security standards such as PCI and Interac. The PIN Pad together with a secure hybrid card reader and a multi-layered security system ensures that all sensitive data is well protected and securely handled throughout the transaction.

## KEY FEATURES

- **Designed for both indoor and outdoor use**
- **Flexible integration through compact and modular hardware**
- **Multiple vending machine interface options: USB, RS-232 and MDB**
- **EMV Level 1 and 2 certified**
- **PCI Compliant**
- **INTERAC Certified**
- **Robust and hardened design**

# Technical Specifications

**The versatile** MSC Unattended Payment Solution's adaptive communication modules are available for various transmission methods such as dial-up, ISDN, Ethernet and GSM/GPRS. GSM/GPRS modems are particularly useful in a kiosk environment where you may need to rapidly change the location of the kiosk to ensure continued usage. Wireless communications can simplify this process tremendously.

In an ever-evolving market place this also provides MSC customers with the ability to upgrade communications in the field — all without changing the PIN Pad and hybrid card reader.

The MSC Unattended Payment Solution is simple and easy to integrate into vending machines and kiosks in all market segments. Its modular architecture, multiple interface configurations and standardised card reader and PIN Pad cut-outs ease integration into all types of machines including:

- Ticket Vending Machines
- Parking Systems
- Multimedia Kiosks
- Postal Machines
- Food and Non-food vending machines
- Petrol pumps

**Versatile** and **Modular**, it is the complete universal unattended payments solution. Combined with MSC's industry recognised reliability and dependability this makes it the only choice for all your unattended payment needs.

## Controller

- 32-bit RISC processor
- 1MB SRAM
- 8MB FLASH
- Real Time Clock
- 1 or 3 SAMs
- Parallel interface to open frame hybrid card reader
- 3 x RS-232 interfaces
- MDB interface (MDB/ICP version 3.0)
- Energy saving battery mode with wake-up facility
- USB 2.0 slave
- Interface to alphanumeric display
- Optional internal communications modules:
  - PSTN V.34, ISDN
  - Ethernet, 100BaseT, TCP/IP
  - GSM/GPRS

2 Control leys and LEDs for operator

Dimensions: Length 121mm, Width 83mm, Height 44mm

## Hybrid Card Reader – Manual/Motorised

- Secure hybrid card reader – manual or motorized
- 32-bit RISC processor
- 128KB SRAM
- 1MB FLASH
- 3-DES and RSA encryption
- Integrated smartcard reader (ID1, ISO 7811, EMV) card locking, landing contacts, protocols: T=0, T=1, 2-wire, 3-wire, I<sup>2</sup>C
- Magnetic stripe card reader for tracks 1,2 and 3
- Shutter to prevent foreign object insertion
- Emergency power-fail card release
- 2 SAMs
- 2 x RS-232 interfaces
- USB 2.0 slave
- Tamper responsive and tamper evident metal housing
- 3 control LEDs in front metal bezel
- Optional EVA-CVS metal bezel
- Anti-vandal metal bezel installation cut-out: Width 73.2mm, Height 61.2mm
- Dimensions:
  - HCR Manual: Length 125mm, Width 84mm, Height 54mm
  - HCR Motorised: Length 177mm, Width 84mm, Height 59mm

## Unattended PIN Pad

- 32-bit RISC processor
- 512KB SRAM
- 2MB FLASH
- 1 x RS-232 interface
- Tamper responsive tamper evident metal housing
- Anti-vandal stainless steel keyboard, 16 keys with positive feedback
- 132 x 64 Backlit graphics display
- Installation cut-out: Width 100mm, Height 164mm

## Environment

- CE Certification
- EMV Level 1 and 2
- PCI-PED (Payment Card Industry) and INTERAC Certified
- Mechanical Stress: EN 60721-3-3/4, EN 60068-2-x
- Keyboard vandal resistance: IK09
- Climatic Stress (Indoor and Outdoor use): EN 60721-3-3/4, EN 60068-2-x
- Power Supply: 10 to 30 V DC
- Operating Temperatures: -20 °C to +65 °C
  - 5 °C to +50 °C (HCR Motorised)
  - 9 °C to +55 °C (PSTN, ISDN and Ethernet)