

MPC-S2K

MIFARE DESFire EV1 2KB ISO Card



Product Description

The MIFARE DESFire EV1 access card is a high-security, contactless smart card designed for advanced access control, identity management, and secure data applications. Built on the ISO/IEC 14443-A standard and equipped with DES, 2K3DES, 3K3DES, and AES hardware encryption, it provides fast, reliable, and secure communication between the card and reader.

Product Features

- High-Level Security**
 - Supports multiple encryption standards (DES/3DES/AES) for secure authentication and data protection.
- Multiple Applications**
 - Stores up to 28 independent applications with 32 files per application, allowing use across access control, time attendance, vending, transport, and more.
- Large Memory Capacity**
 - Available in multiple memory sizes (e.g., 2K, 4K, 8K bytes) to meet varying application needs.
- Fast Transaction Speed**
 - Supports high-speed data transmission (up to 848 kbps) for smooth user experience at access points.
- Durability & Compatibility**
 - Fully compliant with ISO/IEC 14443 Type A standard
 - Compatible with most MIFARE DESFire EV1 readers

Product Specification

EEPROM size	2 KB
Write endurance (cycles)	500,000
Data retention (years)	10
Organization	Flexible file system
Unique serial number (Byte)	7, cascaded
Random number generator	Yes
Access keys	14 keys per application
Access conditions	Per file
AES, 3DES & DES Security	MACing/Encipherment
Anti-tear supported by chip	Yes
Multi-application	28 applications, MAD3
Purse functionality	Value file
Transaction logging capability	Record file
Secure transport transaction example	512-byte read, 128-byte write
Related transaction time (ms)	89
Proximity check	Yes
Acc. to ISO 14443A	Yes-up to layer 4
Frequency (MHz)	13.56
Baud rate (kbit/s)	106 ... 848
Anti-collision	Bit-wise
Operating distance (mm)	Up to 100

Data Sheet | Accessories

Related Product

- ▶ XP-Q1200/IP
- ▶ XP-Q2200/IP
- ▶ XP-QNET
- ▶ XP-QNET/IPC
- ▶ XP-QNET-GAC
- ▶ XP-QNET-GAC/IPC
- ▶ XP-MK820
- ▶ PLATO-Q82
- ▶ PLATO-M82
- ▶ USB-XPNET HS V2.0 PS
- ▶ MKEY-XPNETHSV2.0PS

Ordering Information

XP-Q1200/IP

1 Door Advanced Multi-Class MIFARE - DESFire & QR (Dynamic) Network Controller. High Security Dual ID Matching. Max.2 RS485 In & Out Readers/ 2 Weigand Reader Connection. Relay Outputs & 6 Inputs. 20,000 Users, 50,000 Event. Encrypted TCP/IP. Power Supply & Back Up Battery with Metal Enclosure.

XP-Q2200/IP

2 Door Advanced Multi-Class MIFARE - DESFire & QR (Dynamic) Network Controller. High Security Dual ID Matching. Max 4 RS485, 2 In & 2 Out Readers / 2 Weigand Reader Connection. 4 Relay Outputs & 11 Inputs. 20,000 Users, 50,000 Event. Encrypted TCP/IP. Power Supply & Back Up Battery. Metal Enclosure.

XP-QNET

5 Door Multi-Function IP DESFire QR Network Controller. HENGFU Switching Power Supply Battery Charger. Back Up Battery. Metal Enclosure. Support Door Access, Lift Access & Alarm Monitoring.

XP-QNET/IPC

Multi-Function IP DESFire QR Network Controller. Switching Power Supply Battery Charger. Back Up Battery. Metal Enclosure. Support Door Access, Lift Access & Alarm Monitoring (MK820 Reader Interface Required).

XP-QNET-GAC

Master Controller For Q Series Global Anti-Passback. HENGFU switching power supply battery charger. 12AH Sealed Lead-Acid Rechargeable Battery. 5 Door IP Centralized Controller Board Only.

XP-QNET-GAC/IPC

Master Controller For Q Series Global Anti-Passback. Switching power supply battery charger. 7AH Sealed Lead-Acid Rechargeable Battery.

XP-MK820

Reader interface unit for QNET.

PLATO-Q82

QR Code and MIFARE Classic / DESFire Multiple Card Format 13.56 MHz. Encrypted RS485 - Read CSN and Encrypted Profile ID . ABS Casing. MCMC Certified. (Replacement Model for PLATO-Q81MS).

PLATO-M82

MIFARE Classic / DESFire Advanced High Security Multi-Format 13.56 MHz ISO14443A / B. Encrypted RS485 - Read CSN and Encrypted Profile ID. ABS Casing. MCMC Certified. (Replacement Model for PLATO-RM80MS).

USB-XPNET HS V2.0 PS

xPortalNet HS PS v2.0 Software License Dongle.

USB-XPNET HS V2.0 STD

xPortalNet HS Standard v2.0 Software License Dongle.