

## MPC-D10EV2

### MIFARE DESFire EV2 2KB ISO Card



#### Product Description

The MIFARE DESFire EV2 access card is a next-generation, high-security smart card designed for secure access control, identity verification, and multi-application environments. Built on the proven ISO/IEC 14443-A standard and enhanced with advanced cryptographic features, it is an ideal solution for enterprise, government, education, and transport sectors.

#### Product Features

- **High-Level Security**
  - Supports AES-128, 2K3DES, and 3K3DES encryption algorithms
  - Secure file and data access with flexible access rights
  - Common Criteria certified (EAL5+)
- **Multi-Application Capability**
  - Supports unlimited application instances (limited by memory)
  - Each application can contain up to 32 files with configurable access conditions
  - Enables a single card for access, payment, transport, time attendance, and more
- **Fast & Reliable Communication**
  - Data transfer rate up to 848 kbps
  - ISO/IEC 14443-A compliant
- **High Endurance & Longevity**
  - Up to 1,000,000 write cycles
  - 25-year data retention
  - Ideal for long-term ID and credential use

#### Product Specification

EEPROM size	2 KB
Write endurance (cycles)	500,000
Data retention (years)	25
Organization	Flexible file system
Unique serial number (Byte)	7, cascaded
Random number generator	Yes
Access keys	14 keys per application
Multiple key sets	Up to 16 per application
Access conditions	Per file
AES, 3DES & DES Security	MACing/Encipherment
Anti-tear supported by chip	Yes
Multi-application	Unlimited applications, MIsmartApp
Number fo files per app	32
Purse functionality	Value file
Inter-app file sharing	Yes
Transaction MAC	Per application
Virtual smart card architecture	PICC and application level
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.