

# SYMMETRY™ MULTINODE M4000 INTELLIGENT DOOR CONTROLLER

The M4000 intelligent door controller provides distributed intelligence for Symmetry access control systems and ensures complete system security, resilience and reliability. When integrated with Symmetry Access Control Software the M4000 delivers a seamless security management system to protect all types of buildings while maintaining a low cost of ownership.

The M4000 is a powerful next generation controller. Designed to work with Symmetry Access Control Software v9.1 and above, the M4000 offers flexible expansion options and advanced security features.

The M4000 Database Door Controller is comprised of a M4000-DBB Database (daughter) Board connected to a M4000-DEC4 Door Entry Controller board.

The M4000 Door Database Controller supports up to 4 card readers and multiple units can be combined in a single enclosure for centralized access control applications.

The M4000 Database Door Controller supports down stream comms to up to 4 M4000-DEC4 units for a maximum of 20 card readers, and up to 4 M4000-IOC20/16 Input-Output Controllers for a maximum of 80 inputs & 64 outputs.

## KEY FEATURES

- Flexible door controller platform for high security physical access control
- Distributed intelligence retains data locally in event of network or server failure
- On board 1Gb network interface with AES encryption capability
- Manages up to 1,000,000 cardholders and 65,000 off-line transactions
- Future-proof controller with Linux operating system
- Supports OSDP and Wiegand reader communication
- Works with most standard card technologies including MIFARE and DESFire
- Integrated intrusion management option (Homeland version) expected Q1 2020
- Wall Mount enclosures available
- Power is provided by the new M4000-PSU (12/24Vdc 6.5/3.25A, 100-240Vac)
- Health monitoring and remote firmware updates can be done by the optional Symmetry Sentry Software
- M4000-IOC20/16 is a 20 Input/16 Output Board, 4 boards can be added to the M4000 Database Door Controller for up to 80 inputs and 64 outputs

**SPECIFICATIONS**

**Dimensions (Excluding Enclosure)**

- M4000 Database Door Controller: Width: 9.2in Height: 5.9in (233 x 150mm)

**Operating Environment**

- +14°F to +131°F (-10°C to 55°C)
- 15% to 90% humidity non-condensing

**Communications Distances**

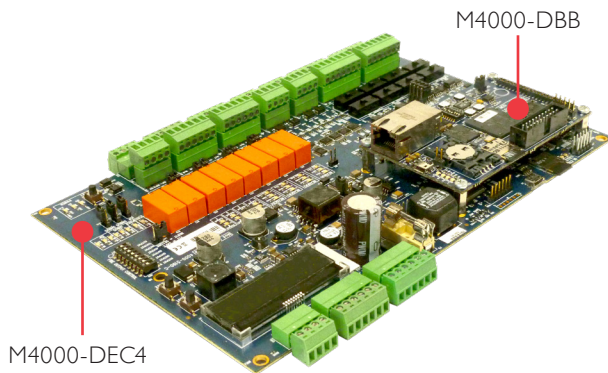
- Door Controller board to Wiegand and OSDP readers = 325ft (75m)

**Reader Ports**

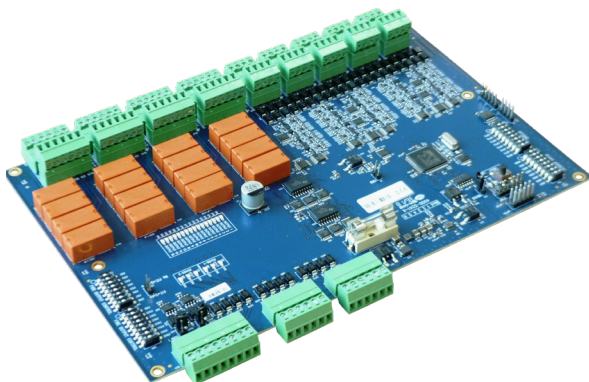
- 4 x Switch selectable OSDP or Wiegand
- 4 x Door monitor inputs 2/3/4/6/10 - state supervision
- 4 x Exit request inputs 2/3/4/6/10 - state supervision
- 4 x Door Lock Relay Outputs
- Alternatively, unpopulated ports can be re-configured to provide:
  - General purpose inputs (with 2/3/4/6/10 state supervision)
  - General purpose relay outputs

**M4000 DOOR DATABASE CONTROLLER**

M4000-DEC4 with a M4000-DBB attached



**M4000-IOC20/16**



**Storage Capacities**

- 1,000,000 cards and 65,000 offline transactions

**Ratings**

- I2/24Vdc Supply
- M4000-DBB - 250mA@12V
- M4000-DEC4 - 300mA@12V
- M4000-IOC20/16 - 150mA@12V

**Compliance**

- Controller – [UL Compliance due Q1 2020]
- EMC to EN50130-4:2011
- FCC

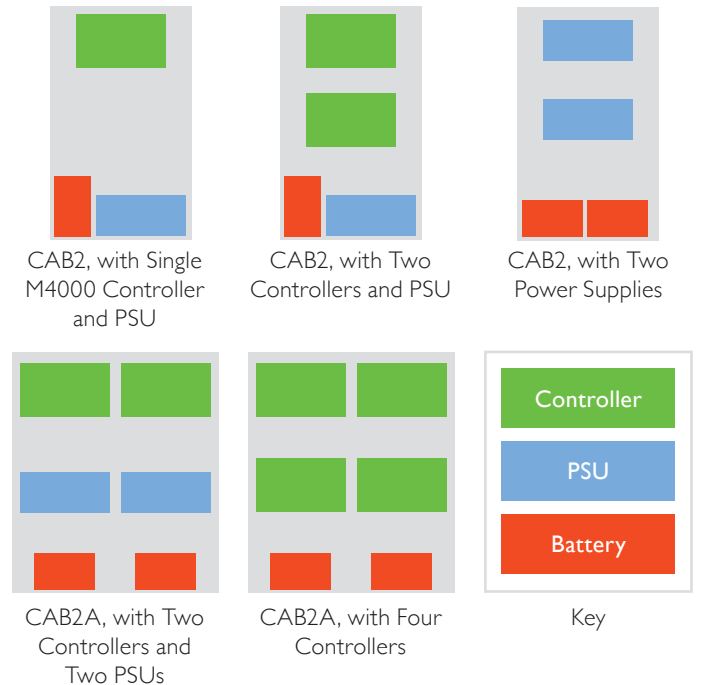
**Software Support**

- Requires Symmetry Professional or Symmetry Enterprise v9.1 or later

**PURCHASING INFORMATION**

- **M4000-PSU** - M4000 PSU I2/24Vdc 6.5/3.25A, 100-240Vac
- **M4000-DBB** - M4000 Database Board (Processor)-Board Only
- **M4000-DEC4** - M4000 (4 Door) Door Entry Controller-Board Only
- **M4000-IOC20/16** - M4000 20 Input/16 Output Controller-Board only

**CAB2 & CAB2A DIAGRAMS**



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