QXEP-MP1501 Intelligent Controller
Powered By HID® Mercury™

HIGHLIGHTS

Local Access Control Processing

• Supports multiple card formats

• Anti-passback support (area, reader and time based)

• Programmable keypad user commands

Security and Network

• IPv4/v6

• Host communications protected by

• TLS 1.2/1.3 or AES-256/128

• Controller/IO Expansion connection protected by AES

• Port based network access control using 802.1X

IP-to-the-Door

• Install at door in 3-gang box

• Provides up to 1.25 A of power at door for reader, lock and more

INTELLIGENT CONTROLLER

• **Open Architecture** – High performance, reliable platform enables use of hardware with both QXEP & Mercury OEM partners' software solutions.

• **PoE+ Powered** – A single PoE+ network connection provides network connectivity, along with power for the controller, reader, lock, and accessories, simplifying installations and removing the cost of traditional power supplies.

• **Enhanced Cybersecurity** – ARM TrustZone, secure boot CPU, crypto chip and data at rest encryption provide a layered security approach to protect sensitive data.

• **Business Continuity** – New processor part of multi-year longevity program, dual footprint circuit designs and the same reliable LP/EP interface and footprint.

The new QXEP-MP Intelligent Controllers provide a bridge between today's urgent security needs and tomorrow's emerging realities. Featuring Secure world processing within a trusted execution environment and a future-ready, on-device application environment to drive advanced enterprise strategies with sophisticated programs and analytics adjacent to the door. With unmatched cyber security, robust reliability, and an open architecture, the QXEP-MP controller infrastructure is ready for the challenges of today and well into the future.

For customers seeking an empowering, comprehensive and open access control platform that is also reliable and cybersecure, the QXEP-MP1501 is the clear solution. It delivers a complete security and access control solution, an innovative edge processing, interoperability and data security.

The QXEP-MP1501 is an edge-capable intelligent controller that is expandable up to eight downstream serial input/output modules.(for a total of 16 doors/openings). The feature-rich QXEP-MP1501 provides a small footprint, cost-effective dual card reader panel for controlling a single opening. Easy installation with Power-over-Ethernet Plus (PoE+) makes the high performance, Ethernet ready QXEP-MP1501 a top choice for a single-door controller.

GENERAL

Primary Power	PoE (12.95 W), compliant to IEEE 802.3af or PoE+ (25 W), compliant to IEEE 802.3at or 12 VDC +/- 10 %, 1.8 A maximum
Power Output	PoE: 12 VDC @ 625 mA including reader and AUX output * PoE+ or external 12 VDC: 12 VDC @ 1.25 A including reader and AUX output * * Excluding micro USB port *Excluding micro USB port
Micro USB Port	5 VDC maximum (deduct 270 mA from reader and Auxiliary Power output)
Battery	Memory/Clock Backup: Super Capacitor (10 days). 3 Volt Lithium, type BR2330 or CR2330 slot available for additional capacity.
microSD Card	microSD or microSDHC; 2GB to 8GB
Host Communication	Ethernet: 10-BaseT/100Base-TX
Inputs	Two unsupervised/supervised, Programmable End-of-Line resistors, 1k/1k ohm, 1 %, ¼ watt standard. One unsupervised input dedicated for cabinet tamper
Output Relays	Two relays: Form-C contacts: 2 A @ 30 VDC, resistive

READER INTERFACE

Reader Power	12 VDC ± 10 %: PoE, PoE+ or local power supply, 600 mA maximum
Data Inputs	Reader port 1: TTL compatible, F/2F or 2-wire RS-485 Reader port 2: TTL compatible or F/2F
LED Output	TTL compatible, high > 3 V, low < 0.5 V, 5 mA source/sink maximum
Buzzer Output	Open collector, 12 VDC open circuit maximum, 40 mA sink maximum

CABLE REQUIREMENTS

Header	I/O Devices RS-485
Data	1 twisted pair, shield. 120 ohm impedance, 24 AWG, 4,000 ft. (1,219 m) maximum
Power and Relays	1 twisted pair, 18 AWG (when using local 12 VDC power supply)
Ethernet	CAT-5, minimum
Reader TTL	6-conductor, 18 AWG, 500 ft. (152 m) maximum
Reader F/2F	4-conductor, 18 AWG, 500 ft. (152 m) maximum
Alarm Input	1 twisted pair per input, 30 ohms maximum
Alarm Output	As required for the load

ENVIRONMENTAL

Temperature	-55 to +85 °C, storage, 0 to +70 °C, operating
Humidity	5 to 95% RHNC

MECHANICAL

Dimensions	5.5 in. (140 mm) W x 2.75 in. (70 mm) L x 0.96 in. (24 mm) H without bracket 5.5 in. (140 mm) W x 3.63 in. (92 mm) L x 1.33 in.
Weight	3.6 oz. (103 g) without bracket, 4.43 oz. (125.5 g) with bracket
Product Compliance	UL 294 Recognized1, FCC Part 15 Class A, CE Compliant, RoHS (2011/65/EU & 2015/863), EU REACH (1907/2006), California Proposition 65, NIST Certified Encryption (in process)
Warranty	The product is warranted free from defects in material and workmanship under normal use and service with proper maintenance for one year from the date of factory shipment.