



#### **HIGHLIGHTS**

#### **Third Party Integration Supported**

- Wireless Locks
- Power Supply Alerts and Events

### **Security and Network**

- IPv4/v6
- Host communications protected by TLS 12/11 or AFS-256/128
- Controller/IO Expansion connection protected by AES
- Generate and load custom peer certificates for TLS
- Port based network access control using 802.1X
- FIPS 140-2 user of OpenSSL

#### **Card Reader Functions**

- Supports multiple card formats, paired and alternate readers, elevator, turnstile and biometric devices
- Anti-passback support (area, reader and time based)
- Programmable keypad user commands
- Threat level and operating mode

# INTELLIGENT CONTROLLER (4 READERS, 8 INPUTS, 4 OUTPUTS)

- Open Architecture High performance, reliable platform enables use of hardware with HID Mercury OEM partners' software solutions.
- Enhanced Security Embedded crypto memory chip and data at rest encryption provides secured layer of protection of sensitive data.
- OSDP Protocol Secure channel communications for reader connectivity.
- Versatile Interoperability Same reliable interface and identical footprint as the EP Controllers, enabling seamless upgrades for existing deployments.

The HID Mercury LP Series Intelligent Controllers are HID Global's next generation advanced access control platform that runs on embedded Linux. The enhanced platform offers an improved processor and increased memory, plus feature an embedded crypto memory chip that provides a secured layer of encryption to onboard sensitive data. Built on the HID Mercury open platform, LP Series controllers provide the necessary flexibility for OEMs, channel partners and end customers to choose the controller configuration that best fits their needs.

The multi-port LP1502 is a 2-4 card reader panel for controlling two connected doors and managing up to 64 doors/openings. Built on the HID Mercury platform, the intelligent controller uses on-board Ethernet port to connect to cloud or server based access control hosts. The intelligent controller performs access control, alarm management and scheduled operations—all in a single package.

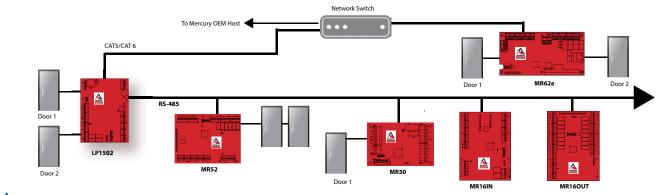
With native connectivity, the highperformance LP1502 functions independently of the host for performing numerous access control applications and supports OSDP, OSDP Secure Channel, keypads, biometric readers, Wiegand, clock and data, magnetic stripe, F/2F and supervised F/2F reader technologies. System configuration and setup are provided through HID Mercury OEM partner software applications.

For partners seeking a comprehensive and open access control platform, and a reliable hardware platform running in a secure environment, the LP1502 is the clear solution. It delivers a complete security and access control solution as well as innovative application extensions, interoperability and data security.



## **SPECIFICATIONS**

HID Mercury LP1502 Intelligent Controller	
	240,000 cardholder capacity 50,000 transaction buffer Supports total of 1 RS-485 IO protocols 255 access levels per cardholder
Access Control	Cardholder - 19 Digit (64 Bit) User ID with 15 digit PIN MAX Activation/Deactivation If/Then macro capabilities
	Anti-passback support Nested, area, hard, soft and timed forgiveness Adjustable cardholder capacity Supports up to 520 inputs and 516 outputs
Door Control	Natively supports for up to 4 readers and 2 openings. Expands to support up to 64 readers and openings.
Door Control	GENERAL
Primary Power	
Reader Port	
Micro USB Port	
Battery	Memory/Clock Backup: 3 Volt Lithium, type BR2330 or CR2330
microSD Card	microSD or microSDHC; 2GB to 8GB
Host Communication	Ethernet: 10-BaseT/100Base-TX and USB port (2.0) with optional adapter: pluggable model USB2-OTGE100
Serial I/O Device	2-wire RS-485, 2,400 to 115,200 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit
Inputs	Eight unsupervised/supervised, standard EOL: 1k/1k ohm, 1%, ¼ watt. Two unsupervised dedicated for cabinet tamper and UPS fault monitoring
Output Relays	Four relays, Form C, NO 5 A @ 30 VDC resistive, NC 3 A @ 30 VDC resistive
	READER INTERFACE
Reader Power	12-24 VDC ± 10 % regulated, 300 mA maximum each reader
Data Inputs	TTL compatible, F/2F or 2-wire RS-485
RS-485 Mode	9,600 to 115,200 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit. Maximum cable length: 2000 ft. (609.6 m)
LED Output	TTL levels, 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
Power and Relays	1 twisted pair, 18 to 16 AWG
Ethernet	CAT-5, minimum
Reader TTL	6-conductor, 18 AWG, 500 feet (150 m) maximum
Reader F/2F	4-conductor, 18 AWG, 500 feet (150 m) maximum
Reader RS-485	1 twisted pair, shielded, 120 ohm impedance, 24 AWG, 2,000 ft. (610 m) max.
I/O Devices	1 twisted pair with drain wire and shield, 120 ohm impedance, 24 AWG, 4,000 ft. (1,219 m) maximum
Alarm Input	1 twisted pair, 30 ohms maximum
	ENVIRONMENTAL
Temperature	-55 to +85 °C, storage, 0 to +70 °C, operating
Humidity	5 to 95% RHNC
	MECHANICAL
Dimensions	8 in. (203.2 mm) W x 6 in. (152.4 mm) L x 1 in. (25 mm) H
Weight	9 oz. (255 g) nominal, board only
	COMPLIANCE AND WARRANTY
Product Compliance	UL 294 Recognized, FCC Part 15 Class A, CE Compliant, RoHS (2011/65/EU & 2015/863), EU REACH (1907/2006), California Proposition 65, NIST Certified Encryption
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.





## hidglobal.com

North America: +1 512 776 9000 Toll Free: 1 800 237 7769 Europe, Middle East, Africa: +44 1440 714 850 Asia Pacific: +852 3160 9800 Latin America: +52 55 5081 1650

© 2019 HID Global Corporation/ASSA ABLOY AB. All rights reserved. HID, HID Global, the HID Blue Brick logo, the Chain Design are trademarks or registered trademarks of HID Global or its licensor(s)/supplier(s) in the US and other countries and may not be used without permission. All other trademarks, service marks, and product or service names are trademarks or registered trademarks of their respective owners. 2019-10-15-hid-mercury-lp1502-ds-en PLT-04697