



HIGHLIGHTS

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

Security and Network

- IPv4/v6
- Host communications protected by TLS 1.2/1.1 or AES-256/128
- Controller/IO Expansion connection protected by AES
- Generate and load custom peer certificates for TLS
- Port based network access control using 8021X
- 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 modes

PoE+ EDGE-CAPABLE (2 READERS, 2 INPUTS, 2 OUTPUTS)

- Open Architecture High performance, reliable platform enables use of hardware with HID Mercury OEM partners' software solutions.
- IP-to-the-Door Supports PoE+ power, removing the cost of traditional power supplies and home-run wiring.
- 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 new HID Mercury LP Series Intelligent Controllers are HID'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 LP1501 is an edge-capable intelligent controller that is expandable up to 8 downstream serial input/output modules and up to 16 MR62e network ready door controllers (for a total of 17 doors/openings). The feature-rich LP1501 provides OEMs with 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 LP1501 a top choice for a single-door controller.

Once configured, the intelligent controller functions independently of the host and can control access and manage sophisticated device processes (such as anti-passback and point linking) both onboard and downstream of the LP1501 without host intervention. It also supports OSDP Secure Channel, keypads, biometric readers, Wiegand, clock and data, magnetic stripe, F/2F and supervised F/2F reader technologies.

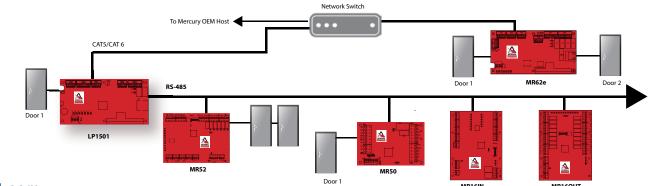
For partners seeking a comprehensive and open access control platform, increased user capacity, and a reliable hardware platform running an expanded set of applications, the LP1501 is the clear solution. It delivers a complete security and access control solution as well as innovative application extensions, interoperability and data security.



SPECIFICATIONS

240,000 cardholder capacity 5,000 transaction buffer Supports total of 185-485 (D protocol 255 access lends per carcholder Supports total of 185-485 (D protocol 255 access lends per carcholder Access Control (I/Then macro capabilities Anti-passbock support Nested, area, hard, soft and timed forgiveness Supports per total of 185-485 (D protocol 255 access hard, soft and timed forgiveness Anti-passbock support Nested, area, hard, soft and timed forgiveness Support soft to 150 (prosts and 150 outputs Door Control Power Output Power Output Power Output Power Output Post or synthy Complete tot letter 80.25 of Protocol 250 (Protocol 250 Access Control	HID Mercury LP1501 Intelligent Controller	
Non-ricuting on-board OSDP reader, device can expand to support up to 17 readers and openings in total	Access Control	50,000 transaction buffer Supports total of 1 RS-485 IO protocol 255 access levels per cardholder 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
Power Output Power	Door Control	
Power Output PoE+ or external 12 VDC: 12 VDC @ 1.25 Å including reader and AUX output * * *excluding micro USB Port 5 VDC maximum (deduct 270 mA from reader and Auxiliary Power output) Battery SRAM Backup Battery; rechargeable Host Communication Ethernet: 10-Base/T/00Base-TX Inputs Two unsupervised/supervised, Programmable End-of-Line resistors, 1k/lk ohm, 1 %, % watt standard. One unsupervised input dedicated for cabinet tamper Output Relay Two relays: Form-C contacts: 2 A @ 30 VDC, resistive Reader Power 12 VDC ± 10 %: PoE, PoE+ or local power supply, 300 mA maximum Potential Poutput Title compatible, Pf2F or 2-wire RS-485 Reader Power 12 VDC ± 10 %: PoE, PoE+ or local power supply, 300 mA maximum Data Inputs Reader port 1: Title compatible, Pf2F or 2-wire RS-485 Reader port 1: Title compatible, Pf2F or 2-wire RS-485 Reader port Title compatible, Pf2F or 2-wire RS-485 Reader port Title compatible, Pf2F or 2-wire RS-485 Reader TTL Seder Ff2F Seder Title Tit	Power Input	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
Battery Host Communication Ethernet: 10-Base T/100Base T/20 Ethernet: 10-Base T/100Base T/20 For the communication Ethernet: 10-Base T/20 For the communication	Power Output	PoE+ or external 12 VDC: 12 VDC @ 1.25 A including reader and AUX output *
Host Communication Inputs Two unsupervised 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 Power I2 VDC ± 10 %: PoE, PoE+ or local power supply, 300 mA maximum Reader Power I2 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 TTL compatible, high > 3 V, low < 0.5 V, 5 mA source/sink maximum CABLE REQUIREMENTS Power and Relays Itwisted pair, 18 AWG (when using local 12 VDC power supply) Ethernet CA-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 Reader RS-485 Itwisted pair, shielded. 24 AWG, 120 ohm impedance, 2000 ft. (610 m) maximum Alarm Input Itwisted pair, per input, 30 ohms maximum Alarm Output As required for the load ENVIRONMENTAL Temperature Humidity 5 to 95% RHNC MECHANICAL Dimensions 5 in. (140 mm) W x 2.75 in. (70 mm) L x 0.96 in. (24 mm) H without bracket 4.43 oz. (12.55 g) without bracket 4.43 oz. (12.55 g) without bracket 4.43 oz. (12.55 g) with bracket 5.15 in. (140 mm) W x 3.63 in. (92 mm) L x 1.33 in. (34 mm) H with bracket 5.15 in. (140 mm) W x 3.65 in. (150 mm) M x 3.65 in. (150 mm) H with bracket 5.15 in. (150 mm) W x 3.65 in. (150 mm) K x 2.75 in. (150 mm) H with bracket 5.15 in. (150 mm) W x 3.65 in. (150 mm) H with bracket 5.15 in. (150 mm) W x 3.65 in. (150 mm) H with bracket 5.15 in. (150 mm) W x 3.65 in. (150 mm) H with bracket 5.15 in. (150 mm) W x 3.65 in. (150 mm) H with bracket 5.15 in. (150 mm) W x 3.65 in. (150 mm) H with bracket 5.15 in. (150 mm) W x 3.65 in. (150 mm) H without bracket 5.15 in. (150 mm) W x 3.65 in. (150 mm) H without bracket 5.15 in. (150 mm) W x 3.65 in. (150 mm) W x 3.65 in. (150 mm) H without bracket 5.15 in. (150 mm) W x 3.65 in. (150 mm) W x	Micro USB Port	
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, 300 mA maximum Poata Inputs Reader port 1: TTL compatible, F/2F or 2-wire RS-485 Reader port 2: TTL compatible, injeh 3 × J, low or 0.5 V, 5 mA source/sink maximum Buzzer Output Open collector, 12 VDC open circuit maximum, 40 mA sink maximum CABLE REGUIREMENTS Power and Relays 1 th wisted pair, 18 AWG (when using local 12 VDC power supply) Ethernet CAT-5, minimum Reader F12F 4-conductor, 18 AWG, 500 ft. (152 m) maximum Reader F24F 4-conductor, 18 AWG, 500 ft. (152 m) maximum Reader F34S 1 twisted pair, shielded, 24 AWG, 120 ohm impedance, 2000 ft. (610 m) maximum Alarm Input 1 twisted pair per input, 30 ohms maximum Alarm Output As required for the load ENVIRONMENTAL Temperature Storage: -55° to 85° C Operating: 0° to 70° C Hunidity 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		
Output Relays Two relays: Form-C contacts: 2 A @ 30 VDC, resistive READER INTERFACE Reader Power	Host Communication	Ethernet: 10-BaseT/100Base-TX
Reader Power Pate 1 (2 VDC ± 10 %: PoE, PoE+ or local power supply, 300 mA maximum 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 CABLE REQUIREMENTS Power and Relays I twisted pair, 18 AWG (when using local 12 VDC power supply) Ethernet CAT-5, minimum Reader TTL G-conductor, 18 AWG, 500 ft. (152 m) maximum Reader RS-485 I twisted pair, shielded. 24 AWG, 120 ohm impedance, 2000 ft. (610 m) maximum Alarm Input Alarm Output As required for the load ENVIRONMENTAL Storage: -55° to 85° C Operating: 0° to 70° C Humidity 5.5 in. (140 mm) W x 2.75 in. (70 mm) L x 0.96 in. (24 mm) H without bracket S.5 in. (140 mm) W x 3.63 in. (92 mm) L x 1.33 in. (34 mm) H with bracket Weight Weight 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 The product is warranted.	Inputs	Two unsupervised/supervised, Programmable End-of-Line resistors, 1k/1k ohm, 1 %, ¼ watt standard. One unsupervised input dedicated for cabinet tamper
Reader Power Data Inputs Reader port 1: TTL compatible, F/2F or 2-wire RS-485 Reader port 2: 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 Power and Relays Ethernet CAT-5, minimum Reader TL Reader TTL Reader TTL Reader TTL Reader F/2F 4-conductor, 18 AWG, 500 ft. (152 m) maximum Alarm Output Alarm Output As required for the load ENVIRONMENTAL Temperature Humidity S to 95% RHNC MECHANICAL Dimensions S 5.5 in. (140 mm) W x 2.75 in. (70 mm) L x 0.96 in. (24 mm) H without bracket S 5.5 in. (140 mm) W x 3.63 in. (92 mm) L x 1.33 in. (34 mm) H without bracket Ad 3.6 (0.25, 93) with bracket Ad 3.6 (0.25, 93) with bracket Ad 3.0 x (125, 25) go with bracket NIST Certified Encryption NIST Certified Encryption NIST Certified Encryption NIST Certified Encryption	Output Relays	Two relays: Form-C contacts: 2 A @ 30 VDC, resistive
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, Righ 3 × 1, Low < 0.5 V, 5 mÅ source/sink maximum Buzzer Output Open collector, 12 VDC open circuit maximum, 40 mÅ sink maximum CABLE REQUIREMENTS 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 Reader RS-485 1 twisted pair, shielded. 24 AWG, 120 ohm impedance, 2000 ft. (610 m) maximum Alarm Input 1 twisted pair per input, 30 ohms maximum Alarm Output As required for the load ENVIRONMENTAL Temperature Storage: -55° to 85° C Operating: 0° to 70° C Operating: 0° to 70° C Poperating: 0° to 70° C MECHANICAL S.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. (34 mm) H with bracket Weight 3.6 oz. (103 g) without bracket 4.43 oz. (125.5 g) with bracket Product Compliance Wersalty The product is warranted free from defects in material and workmanship under normal use and service with proper maintenance for one year from the	READER INTERFACE	
Reader port 2: TTL compatible or F/2F LED Output TTL compatible, high > 3 V, low < 0.5 V, 5 mA source/sink 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 F7/2F 4-conductor, 18 AWG, 500 ft. (152 m) maximum Reader RS-485 1 twisted pair, shielded. 24 AWG, 120 ohm impedance, 2000 ft. (610 m) maximum Alarm Input 1 twisted pair, shielded. 24 AWG, 120 ohm impedance, 2000 ft. (610 m) maximum Alarm Output As required for the load ENVIRONMENTAL Temperature Storage: -55° to 85° C Operating: 0° to 70° C Hunidity 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	Reader Power	12 VDC ± 10 %: PoE, PoE+ or local power supply, 300 mA maximum
Buzzer Output Open collector, 12 VDC open circuit maximum, 40 mA sink maximum CABLE REQUIREMENTS Power and Relays I twisted pair, 18 AWG (when using local 12 VDC power supply) Ethernet CAT-5, minimum Reader TTL G-conductor, 18 AWG, 500 ft. (152 m) maximum Reader F/2F 4-conductor, 18 AWG, 500 ft. (152 m) maximum Reader RS-485 I twisted pair, shielded. 24 AWG, 120 ohm impedance, 2000 ft. (610 m) maximum Alarm Output Alarm Output As required for the load ENVIRONMENTAL Temperature Storage: -55° to 85° C Operating: 0° to 70° C 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. (34 mm) H with bracket 4.43 oz. (125.5 g) with bracket 4.43 oz. (125.5 g) with bracket 4.43 oz. (125.5 g) with bracket Velght The product Compliance The product is warranted free from defects in material and workmanship under normal use and service with proper maintenance for one year from the	Data Inputs	
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Power and Relays Ethernet CAT-5, minimum Reader TTL 6-conductor, 18 AWG, 500 ft. (152 m) maximum Reader RS-485 1 twisted pair, shielded. 24 AWG, 120 ohm impedance, 2000 ft. (610 m) maximum Alarm Input 1 twisted pair, shielded. 24 AWG, 120 ohm impedance, 2000 ft. (610 m) maximum Alarm Output As required for the load ENVIRONMENTAL Temperature Storage: -55° to 85° C Operating: 0° to 70° C Humidity 5 to 95% RHNC MECHANICAL 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. (34 mm) H with bracket Weight Weight Product Compliance Warranty Warranty Warranty Warranty Warranty Humidity I twisted pair, 18 AWG (when using local 12 VDC power supply) ENDIRONMENTAL ENVIRONMENTAL MECHANICAL 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. (34 mm) H with bracket 4.43 oz. (125.5 g) with bracket 4.43 oz. (125.5 g) with bracket 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 The product is warranted free from defects in material and workmanship under normal use and service with proper maintenance for one year from the	Buzzer Output	Open collector, 12 VDC open circuit maximum, 40 mA sink maximum
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 Reader F/2F 4-conductor, 18 AWG, 500 ft. (152 m) maximum Reader RS-485 1 twisted pair, shielded. 24 AWG, 120 ohm impedance, 2000 ft. (610 m) maximum Alarm Input 1 twisted pair per input, 30 ohms maximum Alarm Output As required for the load ENVIRONMENTAL Temperature Storage: -55° to 85° C Operating: 0° to 70° C 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. (34 mm) H with bracket Solic (103 g) without bracket 4.43 oz. (125.5 g) with bracket Product Compliance Uz 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 The product is warranted free from defects in material and workmanship under normal use and service with proper maintenance for one year from the	CABLE REQUIREMENTS	
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NIST Certified Encryption The product is warranted free from defects in material and workmanship under normal use and service with proper maintenance for one year from the	Weight	
	Product Compliance	
	Warranty	

1 For UL, the Power Sourcing Equipment (PSE) such as a PoE or PoE+ enabled network switch and or PoE or PoE+ power injectors must be UL Listed under UL 294B



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