

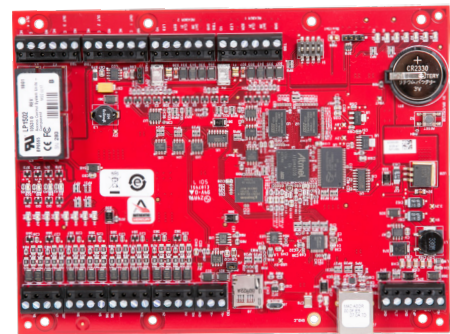
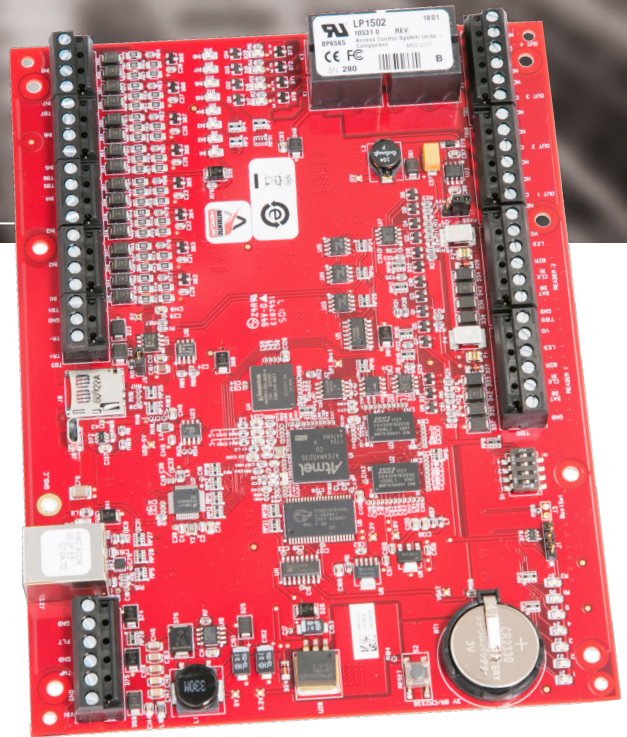
LP-1502

LP-1502 System Control Processor

The LP-1502 is a powerful, IP-based System Control Processor (SCP) expandable to control up to 64 doors with a 240,000 card capacity. Built on the Linux Embedded operating system, the LP series of SCPs modernizes security delivering full end-to-end encryption to ensure data remains secure at all times. Designed to easily replace legacy series panels, the LP-1502 uses an identical footprint and interface as the EP-1502 panel simplifying the migration process. The auxiliary inputs and outputs provide expanded flexibility with simplified point control and monitoring. The LP-1502 supports up to 128 access levels per card and will support two doors, making it ideal for two-door systems.

The LP-1502 contains an onboard SIO and is capable of controlling 2 doors with 4 readers when utilizing OSDP IN/OUT mode. The downstream RS-485 bus allows for an additional 31 SIO subpanels to be added for a maximum of 64 total doors. The versatility and value makes the LP-1502 one of the most popular controllers from the Mercury LP Series. The LP-1502 stores its own cardholder database as well as all schedule information, including unlock/relock times, access times, and holiday information locally. Once configured, the powerful on-board processor allows the LP-1502 to make access decisions locally allowing for operation autonomous from software and can store up to 50,000 events locally. The LP-1502 also supports precision card access, elevator access control, extended door unlock/allowed open timing (ADA required), and includes a full range of anti-passback capabilities.

The LP-1502 can support up to 8 card format/facility code combinations using a wide-range of reader technologies including OSDP with Secure Channel, keypads, biometric readers, Wiegand, clock and data, magnetic stripe, F/2F, and supervised F/2F. It is PIV-II, CAC, and TWIC card compatible. The LP-1502 features AES 256-bit NIST Certified Encryption, and is UL 294 recognized, CE (RoHS) compliant, and HSPD-12/FIPS 201 compliant.



The LP-1502 is among the most flexible panels featuring an onboard SIO that can control two doors, has four auxiliary inputs and two auxiliary outputs, and can be expanded to control up to 64 doors.



The LP-1502 includes these features:

- Built on the Linux Embedded Platform providing enhanced security, communication, and feature sets
- Onboard SIO controls up to 2 doors with all needed I/O
- Card Capacity up to 240,000 cards
- Supports up to 32 reader/input/output SIO subpanels and controls up to a maximum of 64 doors
- Communication over 10/100 Ethernet with support for IPV4 and IPV6
- Supports up to 31 reader/input/output SIO subpanels and control up to a maximum of 64 doors
- Support for up to 8 unique card format/facility code combinations
- Port-based authentication based on the IEEE 802.1X standard for port-based Network Access Control
- Host communication secured using TLS 1.1/1.2 and AES-128/256
- Reader communication support for OSDP 2 with Secure Channel
- UL294 Recognized, CE Compliant, RoHS, NIST Certified Encryption



Technologies

RS2 Technologies has constructed an integrated family of access management software and hardware that can be configured to provide a cost-effective solution for very small to very large systems. The LP series of hardware relies on open architecture to maximize freedom for users, control costs, and allow for interoperability via integration to provide the most complete solution from a platform trusted worldwide.

LP-1502

| Technical Specifications | |
|------------------------------|---|
| Access Configurations | |
| Access Control | 240,000 Card Capacity 50,000 Transaction Buffer 8 Card Formats Up to 255 Access Levels Per Card PIV, CAC, TWIC Compatible If/Then Logic Task Automation Anti-passback support |
| LP-1502 Configuration | Supports 2 Doors, 4 Readers 1 Downstream RS-485 Supports up to 31 Additional SIOs Counts against SCP Count Expandable up to 64 doors total |
| Power | |
| Primary Power | 12 to 24 Vdc +/- 10% 500 mA maximum |
| Reader Power | 12 to 24 Vdc +/- 10%, regulated 300 mA maximum per reader |
| Communication | |
| Host Communication | 10/100 Ethernet IP Server or IP Client Communication TLS 1.1/1.2 or AES-128/256 Encryption |
| SIO Communication | 100-BaseT/100Base-TX 1 RS-485 TLS 1.1/1.2 or AES-128/256 Encryption |
| Readers | OSDP with Secure Channel, Wiegand, keypads, biometric readers, clock and data, magnetic stripe, and F/2F |

| Technical Specifications | |
|-----------------------------------|--|
| Panel Specifications | |
| Inputs | 2 Unsupervised/Supervised Door Contact 2 Unsupervised/Supervised Request to Exit 1 Unsupervised Cabinet Tamper 1 Unsupervised Power Monitor 4 Unsupervised/Supervised Auxiliary Programmable Supervised End-of-Line Resistance Values |
| Outputs | 2 Door Strike Form-C Contact NC 3 A @ 30 Vdc, resistive NO 5 A @ 30 Vdc, resistive 2 Auxiliary Form-C Contact NC 3 A @ 30 Vdc, resistive NO 5 A @ 30 Vdc, resistive |
| Readers | 2 Reader Ports 4 Readers Maximum using OSDP IN/OUT Mode OSDP with Secure Channel, Wiegand, Keypads, Biometric Readers, Clock and Data, Magnetic Stripe, F/2F |
| Standards | UL 294, CE, RoHS |
| Cabling | |
| Power & Relays | 1 Twisted Pair - 18 to 16 AWG |
| Ethernet | CAT-5 Minimum |
| F/2F | 4-Conductor, 18 AWG, 500 Foot Maximum |
| Magstripe and Wiegand(TTL) | 6-Conductor, 18 AWG, 500 Foot Maximum |
| OSDP RS-485 | 1 Twisted Pair, Shielded, 120 Ohm Impedance, 24 AWG, 2,000 Foot Maximum |
| SIO RS-485 | 1 Twisted Pair with Drain Wire and Shield, 120 Ohm Impedance, 24 AWG, 4,000 Foot Maximum |
| Physical Specifications | |
| Dimensions | 8 in. (203.2 mm) W x 6 in. (152.4 mm) L x 1 in. (25 mm) |
| Humidity | 5 to 85% RHNC |
| Temperature | -55 to +85 °C Storage 0 to +49 °C Operating |
| Weight | 9 oz |

