

Hardware Solutions

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RS2 Technologies has developed an integrated family of access control hardware that can be configured to meet a wide variety of applications. It is built around the workhorse LP Series of System Controllers from Mercury Security. These feature-rich devices are a cost-effective solution for very small to very large systems. A variety of input/output modules, communications packages, options, and stand-alone systems provide unparalleled flexibility for system configuration. The Access It! suite of access control software also integrates with a mixture of biometrics, DVR/NVR systems, locksets, and intrusion detection among many integrated devices. RS2 also carries complete enclosure and accessory options that can meet the need of any facility.



The LP Series of panels from Mercury are built on the Linux Embedded platform and provide numerous security and communication enhancements from earlier hardware lines. Devices have the identical footprint and interface as earlier models providing a simplified transition from legacy boards.

LP SERIES SCPs ARE AVAILABLE IN THESE CONFIGURATIONS:

LP-1501

The LP-1501 is a versatile IP-based Controller that is capable of operating as a standalone board controlling a single door or configured to allow for downstream RS-485 communication with control for up to 17 total doors. The LP-1501 supports PoE+ and is capable of delivering up to 1.25 A of power at the for readers, locks, and ancillary devices.

LP-1502

The LP-1502 controller contains an onboard SIO that controls two doors locally and is expandable to control up to 64 doors total. 4 auxiliary inputs and 2 auxiliary outputs provide the latitude to connect multiple devices to a single board.

RS2 PROCESSORS INCLUDE A VARIETY OF FEATURES:

- Built on the secure Linux Embedded platform
- Secure communication with end-to-end encryption (E2EE)
- Support for up to 64 readers
- Card capacity up to 2,000,000 cards
- Native hardware and software integrations
- Variety of communication and power options
- Supports up to 1024 inputs and 1024 outputs
- Flash firmware capability for easy field upgrades
- Support for up to 8 different card formats/technologies
- PIV-II, CAC, and TWIC card compatible.
- UL 294 recognized, CE (RoHS) compliant
- FCC Part 15 Class A, HSPD-12/FIPS 201
- AES 256-bit NIST Certified Encryption
- UL 294 recognized, CE (RoHS) compliant
- FCC Part 15 Class A, HSPD-12/FIPS 201

LP-2500

The LP-2500 controller board is a powerful, IP-based controller board that is expandable to up to 64 doors with a card capacity up to 600,000. Dual RS-485 busses provide an ability to run more than one wiring run or each bus can support different device types and protocols.

LP-4502

The LP-4502 is the most powerful SCP and features a card capacity up to 2,000,000 cards. The dual RS-485 busses allows latitude in wiring and devices. The LP-4502 also features integrations such as embedded pivClass authentication, elevator destination dispatch, and BACnet.

SERIES 3 SIOs ARE AVAILABLE IN THESE CONFIGURATIONS:

MR-16IN-S3

The MR-16IN-S3 subpanel contains 16 general-purpose input monitor points and two control relays. The MR-16IN-S3 is ideal for monitoring alarm or facility monitoring using devices such as door sensors, glass break sensor, water sensors, or smoke detectors.

MR-16OUT-S3

The MR-16OUT-S3 subpanel contains 16 general-purpose outputs that can be used to control a variety of devices included lighting, heating/cooling, sirens, or elevator control.

MR-50-S3

The MR-50-S3 subpanel is single door SIO that is compact with a small footprint making it an ideal solution for applications requiring installation at or near the door.

MR-52-S3

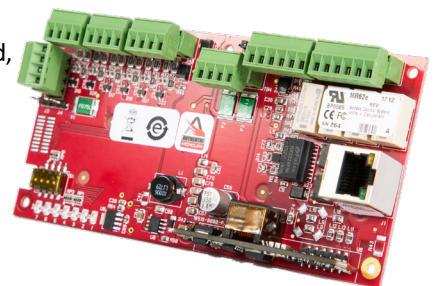
The MR-52-S3 is an SIO capable of controlling two doors with 4 auxiliary inputs and 4 auxiliary outputs providing the most versatile subpanel. The flexibility provided by the MR-52-S3 makes it a popular choice.

MR-62e

The MR-62e is a PoE+ enabled, IP-based subpanel. The MR-62e supports only secure OSDP readers and can supply up to 1.5 A at the board for readers, strikes, and auxiliary devices when using PoE+.

Multiplexers

The **MUX-8** is an eight-port RS-485 multiplexer that takes an RS-485 or RS-232 input and multiplexes eight 2-wire RS-485 communication channels, providing numerous installation configuration options.



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▶ Stand-Alone Systems

RS2's First StepSM PLUS System is designed to address the needs of users who want an easy-to-install, cost-effective solution for simple door control. The First StepSM PLUS System combines the versatile, cost-effective LP Series of controllers with Access It!® Lite.NETTM software. Expandability for two card readers and associated door hardware is provided through the MR-52-S3 dual-reader interface module.

Our NEXt StepSM System network appliance provides users with an economical and reliable two-reader (expandable up to 64 readers) access control solution that requires no computer or software installation. Users simply assign it an IP address and they're up and running. NEXt StepSM can be accessed from any supported web browser, computer, or mobile device. It is built with solid state Authentic MercuryTM hardware, has no moving parts, and is highly secure. All the software is completely pre-installed. It does not require operating system updates.

Our Step UpSM System is a reliable, easy-to-install hardware retrofit offering a simple board swap of boards currently installed in legacy systems. The Step UpSM System is based on the reliable M5 Bridge from Mercury Security, which allows users to perform a simple board swap of every board currently installed in legacy enclosures with a comparable Step UpSM replacement.

▶ Enclosures and Options

RS2 NCLSM Series enclosures are rugged, NEMA approved, vented, 18-gauge steel enclosures, available in the following models:

- **NCLSM**: 18"(H) x 15"(W) x 4"(D) enclosure can accommodate up to three full-size boards or five mid-size boards.
- **NCL-12SM**: 24"(H) x 18"(W) x 4.5"(D) direct wire ready enclosure. (UL-approved NCL-12ULSM is also available.)
- **NCL-8-SPWSM**: 36"(H) x 24"(W) x 5"(D) SPW (Semi Pre-Wired) enclosure.
- **NCL-12-WMSSM**: 36"(H) x 24"(W) x 5"(D) with 1" x 3" wire management system.
- **NCL-SBESM**: A single board enclosure (SBE) configured to hold any hardware boards.

All RS2 NCLSM enclosures include a dedicated tamper switch, cabinet security lock, and assorted knockouts and keyway locks.

Options for the NCLSM line include an adapter plate, linear and switching power supplies, and a battery backup. Power supplies include battery charger and power fail detection.

RS2 also carries enclosure and power options from ASSA ABLOY, Altronix, Bruder Manufacturing, and LifeSafety Power.



RS2 offers a complete line of products that can meet the needs of any system by delivering a wide variety of power and enclosure options.

▶ Biometrics

RS2 Technologies offers the most advanced options in biometric identity verification. These biometric devices can provide multiple factors of authentication using biometric verification providing a more secure access control solution. Biometric solutions include fingerprint, finger vein, hand geometry, facial recognition, and iris scanning. RS2 integrates seamlessly and automatically syncs cardholders, cards, access levels, and biometric templates as needed. Enrollment can be done directly from the Access It! Universal.NET software screen delivering a simplified method of delivering high-level security.

▶ Credentials and Readers

RS2 Technologies carries a diverse selection of readers and credentials. Readers are capable of using 125 kHz credentials, 12.56 MHz credentials, and Bluetooth Low Energy (BLE) credentials via a smartphone. Readers are also capable of supporting smart cards, Data-on-Card solutions, HID iCLASS Seos, and legacy card technologies such as Magstripe. Smart card encoding is available as an optional feature in Access It! Universal.NET. RS2 carries a variety of readers that support the Open Supervised Device Protocol (OSDP) to ensure communication between the reader in the panel is encrypted and secure. RS2 Technologies also carries credentials for each of these technology types.

▶ Integrations

The Access It! software suite offers numerous integrations to many different hardware systems. Included in the hardware integrations are the Mercury Security Platform, Biometrics, BACnet, Elevator Destination Dispatch, DVR/NVR Systems, Intrusion Detection, Power Monitoring, and Wireless/IP Locksets. These hardware integrations provide a framework for creating complete access control solutions fit to meet the needs of any facility.

▶ Wireless/IP Locksets

Wireless/IP locksets lower costs by reducing installation labor, simplifying project management, and leveraging existing infrastructure. RS2 partners with the leading lockset manufacturers to integrate directly into the Access It! Universal.NET software. Supported locksets include ASSA ABLOY, Allegion, Best Access, and SALTO. These platforms provide varying features including Data-on-Card, PoE, and wireless.

