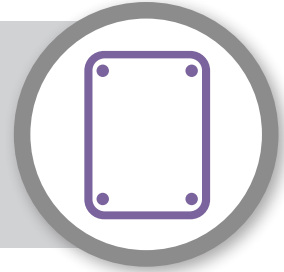


## EZ Intelligent I/O Controllers

Part number: EZ-SAT-IO12-485, EZ-SAT-IO12-E, EZ-SAT-IO24-E



The EZ I/O controller is used with Sateon Access Control software and simply connects to the system network via an IP switch, with no other data connection required.

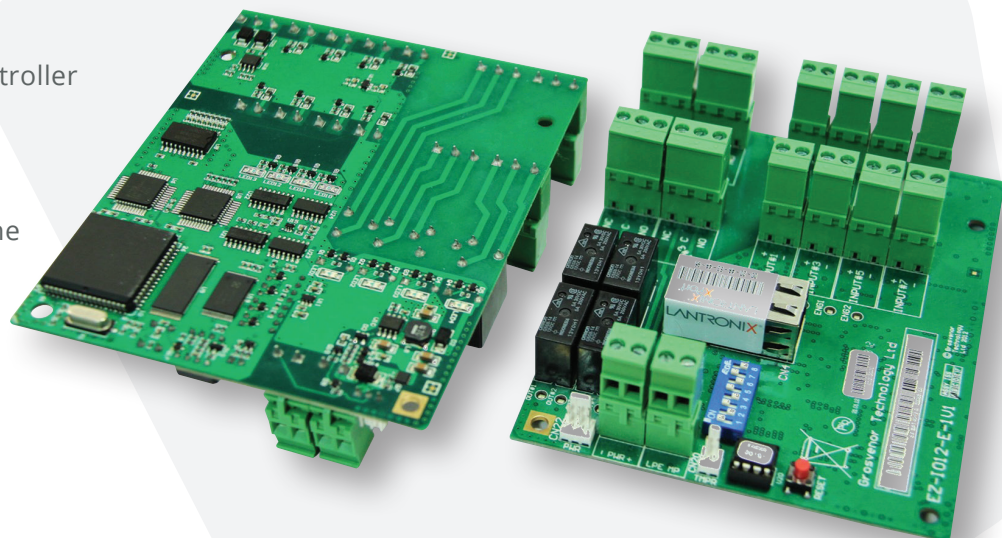
POE is supported by incorporating a Grosvenor Technology POE splitter or a specific POE enclosure, both of which include additional protection with individual fuses for auxiliary power, battery overload and battery charging circuits.

Where an existing RS485 network exists, the EZ RS485 I/O controllers can be connected in-line with up to thirty-two controller nodes to form a Sateon 'Field Network'. This in turn connects to the Sateon PC network via an IP Line Header.

There is no limit to the number of RS485 Field Networks than can be connected to a Sateon System.

### Key features

- Type IO12 - 8 + 4 alarm inputs and relay outputs
  - IP and RS485 versions available
- Type IO24 - 8 + 16 alarm inputs and relay outputs
  - IP version only
- Power over ethernet supported
- Panel tamper monitoring
- Real-time processing at the controller
- On-board information LEDs
- Battery back-up
- Up to 4,000 event buffer if offline
- No system limit for the number of controllers





#### Dimensions (H x W x D)

- 106mm x 130mm x 38mm (IO12 board only)
- 106mm x 189mm x 38mm (IO24 board only)
- 385mm x 279mm x 78mm (with EZ-ENC-2A-230V enclosure)
- 385mm x 279mm 78mm (with EZ-ENC-POE enclosure)
- 355mm x 305mm x 102mm (with EZ-ENC-NPU-UL enclosure)

#### Weight

- 162g (IP IO12 board only)
- 156g (RS485 IO12 board only)
- 256g (IP IO24 board only)
- 2.54kg (EZ-ENC-2A 230V enclosure only)
- 2.35kg (EZ-ENC-POE enclosure only)
- 3.6kg (EZ-ENC-NPU-UL enclosure only)

#### Maximum Current Draw (All Relays On)

- 185mA (RS485 IO12 controller)
- 245mA (IP IO12 controller)
- 724mA (IP IO24 controller)

#### Battery Back-up (12V 7Ah)

Battery duration will depend on the type of controller and the combined rating of peripherals connected. A 7Ah battery will typically provide up to 4 hours reserve.

#### Panel Tamper

Included

#### Communication (IP Controller)

RJ45 Ethernet 10/100 BASE-T, 10/100 Mbps, DHCP supported

#### Optional Encryption (IP Controller)

128-bit Rijndael Advanced Encryption Standard (AES)

#### Communication (RS485)

2-wire twisted pair RS485. For long runs or in harsh electrical environments use braided pair. 19.2k baud

#### Power Supply and Enclosures

EZ controllers install into a Grosvenor Technology enclosure or other equivalent of your choice

The standard enclosure includes an integral 2.5A PSU of which 2A is available for locks and peripherals

Alternatively, a POE enclosure supplies up to 30 watts when using the Grosvenor Technology POE PSU injector

#### Certification

- BS EN 50133-1 + A1 1997 - Emissions and immunity standard for access control systems
- BS EN 55022 class B 1998 - Emissions standard for information technology equipment
- BS EN 50133-1 + A1 1997 - Immunity standard for access control systems
- BUS EN 61000-4-2 1995 - ESD requirements
- BS EN 61000-4-3 + A1 2006 - Radiated susceptibility
- BS EN 61000-4-4 1995 - Surges requirements
- BS EN 61000-4-6 1996 - Conducted susceptibility
- BS EN 61000-4-11 1994 - Voltage dips and interruptions
- Following the provisions of EU EMC Directives 89/336/EEC and 92/31/EEC

#### Ordering Information

- EZ-SAT-IO12-E  
IP IO12 Controller - board only
- EZ-SAT-IO12-485  
RS485 IO12 Controller - board only
- EZ-SAT-IO24-E  
IP IO24 Controller - board only
- EZ-ENC-2A-230V  
Enclosure/Panel c/w 230V 2A mains PSU
- EZ-ENC-POE  
POE enclosure c/w POE splitter. Includes individual fused circuits for auxiliary power, battery overload and battery charging
- EZ-POE-PSU  
30W POE injector PSU
- EZ-ENC-NPU-UL  
UL certified enclosure for use with EZ door and I/O controllers. A separate UL 294 PSU or POE injector is required

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