ARMATURA

AHEB-0808
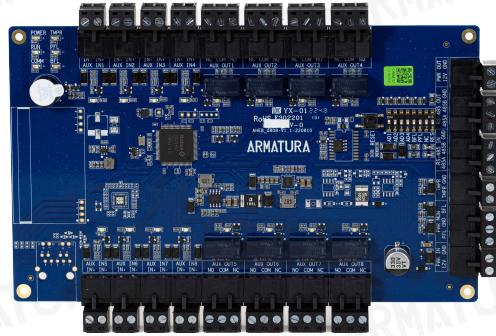## IO Expansion Board

- Scalable
- Supervised Inputs
- 3rd Party Integration
- I/O Relay Available

Key Features

Advanced Security

The AHEB-0808expansion board can communicate with supported controllers through OSDP V2.2. Supporting secure communication with AES128/TLS 1.2 (with AES256)encryption. Communication between Enhanced encryption levels are provided by an additional Certified EAL6+ standard chip offering dedicated storage and cryptographic functionality.

Innovative System Management Hierarchy

The AHEB-0808 I/O expansion board can be monitored and updated through OSDP communication to the supported controllers.
I/O's can then be managed via the controllers software.

Scalability

The AHEB-0808 supports up to 384 inputs and 385 outputs when used with a single controller. All communications are securely protected by AES128 encryption.

Supervised Inputs

The AHEB-0808 expansion board is equipped with 4 state-supervised inputs, designed to mitigate short-circuit attacks. These inputs can detect abnormal changes, even as low
as 5% Ohms in the circuits, and efficiently filter out all potential attacks. Isolated microchips independently manage REX inputs and dedicated fire alarm inputs, ensuring their uninterrupted functionality.

3rd Party Integration

The AHEB series supports various relay inputs and outputs, making it suitable for a wide range of 3rd party applications.
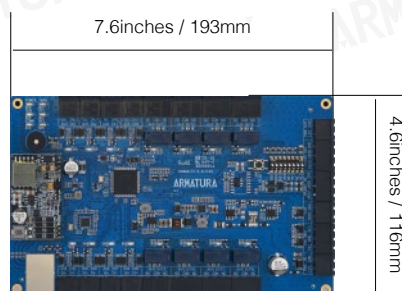
Universal Voltage

Supports 9 to 24Vdc inputs making it the ideal choice for universal deployment, eliminating the need for additional power adaptors.

Programmable Input States with Time Zone Management

The AHEB-0808 offers supervised and programmable input states, including In-Active, Active, Short, and Open. Users can easily configure these input states and input time schedules through supported controller software.

Dimensions of Expansion Board

7.6inches / 193mm

4.6inches / 116mm

AHEB-0808

General Information

	AHEB-0808	
Primary Power	12 - 24 VDC ± 20%, 550 mA maximum	
RS-485 Connectivity	Output: RS-485 standard / OSDP V2.2 (Dedicated for AHSC-1000/ AHDU series controller communication) Input: RS-485 Input standard / OSDP V2.2 (Dedicated for AHEB series IO expansion board communication)	
Number of Ports	1*RS-485 8*supervised input (AUX IN) 8*relay output (AUX OUT) 1* power Input (PWR IN) 1*power output (PWR OUT) 1*power detection (AC Fail) 1* backup battery detection (BAT Fail) 1*tamper input (TMPR)	
Inputs	4 state supervision, resistor values (5% tolerance), Normally open contact: use 1.2k, 2.2k. 4.7k or 10k/ Normally closed contact: use 1.2k, 2.2k. 4.7k or 10k	
Outputs	8 relays, 8* Form-C with dry contacts	2 relays, 2* Form-C with dry contacts

AHSC/ AHDU Interface

	AHEB-0808	
RS-485 Protocol	12 - 24 VDC ± 20%, 550 mA maximum	
Data Inputs	OSDP supported. Maximum cable length: 500 ft. (152m)	

Cable Requirement

	AHEB-0808	
Power & Relays	12 - 24 VDC ± 20%, 550 mA maximum	
RS-485 Port	9600-115200 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and1 stop bit. One twisted pair with drain wire and shield, 120 ohm resistance, 22-18 AWG, Maximum cable length: 3937ft (1200m)	

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Mechanical

	AHEB-0808	
Dimensions	7.6" W x 4.6" L x 0.7" H (193 x 116 x 17.5mm)	
Weight	5.8oz (165.3g)	
Mounting	Wall Mount	

Environmental

	AHEB-0808	
Temperature	-22°F ~ 158°F (-30°C~70°C), Operating & Storage	
Humidity	0-95%RHNC	
Certification(s)	CE, FCC, RoHS, UL294	
Security Rating	Data Storage Encrypted with Certified EAL6+ Crypto Chipset	

Supported Devices & Software

	AHEB-0808	
	Atlas Series, BioSecurity and Pro Panels	