## **ARMATURA**

# AHEB Series IO Expansion Board

- Scalable
- · Supervised Inputs (Coming Soon)
- 3rd Party Integration



#### **Key Features**

#### Cyber Security

AHEB I/O expansion boards communicate with AHSC1000 or AHDU series controller through OSDP V2.2 over RS-485, secured by AES128 / TLS 1.2 (with AES256) encryption. Communications between the Armatura One server and web client are protected by HTTPS / TLS1.2 (AES256) or above. Enhanced cybersecurity levels are provided by an additional crypto chip (Certified EAL6+ standard), providing dedicated storage and cryptographic functionality for all Armatura controllers.

#### Innovative System Management Hierarchy

The AHEB series IO expansion board can be monitored & updated by the AHSC-1000 and AHDU controller series onboard webserver through encrypted RS-485 communication. Supports

communication with the Armatura One security system through the AHSC-1000 and AHDU controller series.

#### Scalable

Supports up to 384 inputs and 385 outputs under a single AHDU controller and ultimately supports up to 12,801 inputs or outputs under a combination of AHSC-1000 and AHDU series controllers. All communication is secured by AES128 encryption between boards.

#### Supervised Inputs (coming soon)

The AHEB IO expansion board series is equipped with 4-state supervised inputs, which gradually avoids short circuit attacks. The AHEB expansion board can detect abnormal changes as low as 5% Ohms in the circuits and filter out all possible attacks. Isolated microchips independently manage REX inputs and dedicated fire alarm inputs to ensure these inputs can normally work under extreme and catastrophic situations, even if the motherboard isn't functioning properly.

#### 3rd Party Integration

Supports various relay inputs and outputs. Suitable for most kinds of security sensors. Armatura One system provides RESTful based API for 3rd Party Software Integration.

#### Universal Voltage

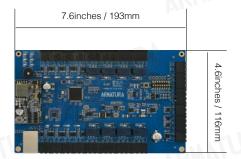
Supports 9 to 24Vdc inputs, which makes it the perfect choice for universal deployment, eliminating the need for extra power adaptors.

### Configurable Four-states with time zone management supervised input points (coming soon)

All supervised and programmable Inputs states (In-Active, Active, Short, Open) and input time can be configured through the Armatura One security platform.

#### Dimensions of Expansion Board







AHEB-0216 AHEB-0808 AHEB-1602



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C		al Information		
	AHEB-0216 (Coming Soon)	AHEB-0808	AHEB-1602 (Coming Soon)	
Primary Power		12 - 24 VDC ± 20%, 550 mA maximum		
RS-485 Connectivity	,	Output: RS-485 standard / OSDP V2.2 for AHSC-1000/ AHDU series controller comr Input: RS-485 Input standard / OSDP V2.2 d for AHEB series IO expansion board commi	,	
Number of Ports	1*RS-485 2*supervised input (AUX IN) 16*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)	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)	1*RS-485 16*supervised input (AUX IN) 2*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		tate supervision, resistor values (5% toleranc .2k, 2.2k. 4.7k or 10k/ Normally closed contact	The state of the s	
Outputs	16 relays, 16* Form-C with dry contacts	8 relays, 8* Form-C with dry contacts	2 relays, 2* Form-C with dry contacts	

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YKI		AHSC/ A	HDU Interface		
		AHEB-0216	AHEB-0808	AHEB-1602	
	RS-485 Protocol		12 - 24 VDC ± 20%, 550 mA maximum		
	OSDP Mode	9600-115200 bps, OSDP V2.2, asynchronous, half-duplex, 1 start bit, 8 data bits, and1 stop bit.  Maximum cable length: 2,000 ft. (609.6m)			
ARI	Data Inputs		OSDP supported.  Maximum cable length: 500 ft. (152m)		

	Cable Requirement		
	AHEB-0216	AHEB-0808	AHEB-1602
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 st One twisted pair with drain wire and shield, 120 ohm resistance, 22-18 AV Maximum cable length: 3937ft (1200m)	

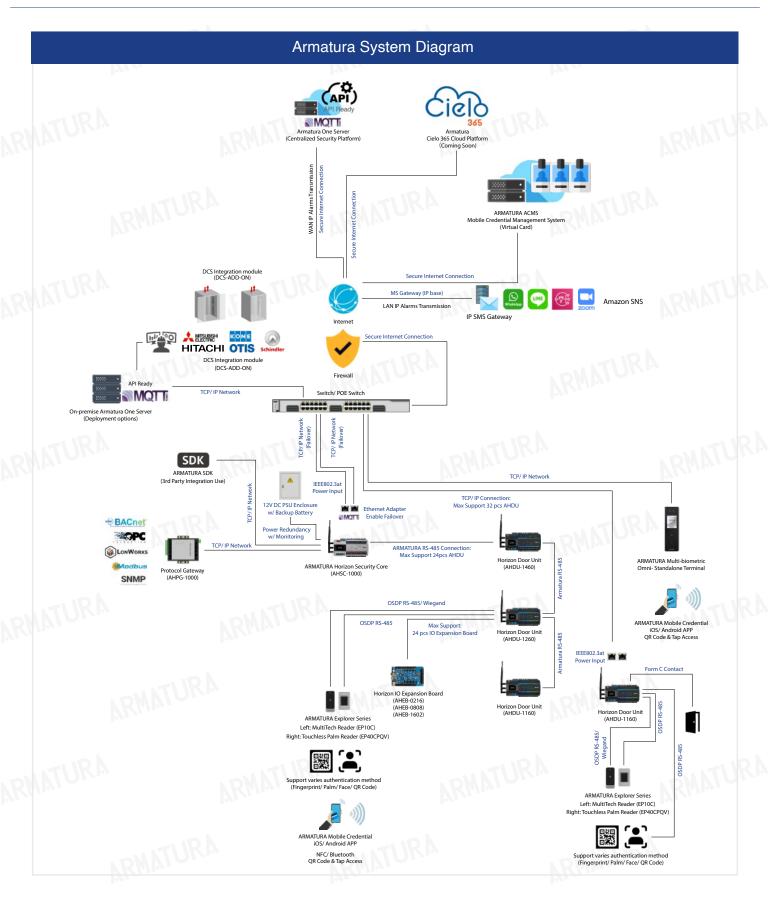


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	Me	echanical		
	AHEB-0216	AHEB-0808	AHEB-1602	
Dimensions		7.6" W x 4.6" L x 0.7" H (193 x 116 x 17.5mm)		
Weight		5.8oz (165.3g)		
Mounting		Wall Mount		

			L D WI LX I	
	Environmental			
	AHEB-0216	AHEB-0808	AHEB-1602	
Temperature	-2	2°F ~ 158°F (-30°C~70°C), Operating & Stora	age	
Humidity		0-95%RHNC		
Certification(s)	CE, FCC, RoHS, UL294			
Security Rating	Data Storage Encrypted with Certified EAL6+ Crypto Chipset			

Software Interface			
	AHEB-0216	AHEB-0808	AHEB-1602
Supported Software Armatura One Security System			

## ARMATURA





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