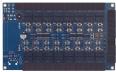
## ARMATURA

# AHEB Series 1/O Expansion Board

- Scalable
- · Supervised Inputs
- Advanced Elevator Control Functions
- Certified OSDP Communication









### **Key Features**

#### **Advanced Security**

AHEB I/O expansion boards can communicate with AHSC-1000 or AHDU series controllers through OSDP V2.2 over RS-485. The communication is secured with AES128 encryption. Enhanced encryption levels are provided by an additional crypto chip (Certified EAL6+ standard), offering dedicated storage and cryptographic functionality for all Armatura controllers and expansion boards.

#### Innovative System Management Hierarchy

The AHEB series I/O expansion board can be monitored and updated through encrypted RS-485 communication by the AHSC-1000 and AHDU controller series onboard webserver. It supports communication with the Armatura One security system and will soon support Cielo365 as well, using the AHSC-1000 and AHDU Series controller.

#### Scalability

The AHEB series supports up to 388 inputs or 196 outputs when used with a single AHDU controller. In a combination of AHSC-1000 and AHDU series controllers, it can ultimately handle up to 12,801 inputs or outputs. All communications are securely protected by AES128 encryption.

#### Supervised Inputs

The AHEB I/O expansion board series is equipped with 4 state-supervised inputs, designed to mitigate short-circuit attacks effectively. 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 even under extreme situations.

#### Elevator Control Mode

The AHEB series of expansion boards enhances building control systems with configurable relay ports that can be adapted as inputs or outputs to meet diverse operational needs. While all boards in the series ensure seamless and secure integration via OSDP over RS-485, the AHEB-1616 model distinctively supports advanced elevator control functions. This includes automatic floor selection and Floor Selection History Logging, capabilities exclusive to the AHEB-1616, making it ideal for complex, multi-story elevator management in larger buildings.

#### 3rd Party Integration

The AHEB series supports various inputs and outputs, making it suitable for a wide range of security devices. The Armatura One system offers a RESTful API for seamless integration with 3rd Party Software.

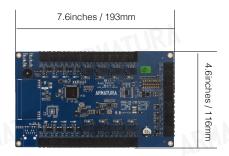
#### Universal Voltage

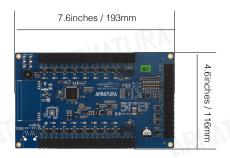
Supports 12 to 24Vdc inputs making it the ideal choice for universal deployment, eliminating the need for additional power adaptors.

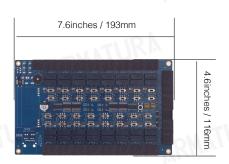
#### Programmable Input States with Time Zone Management

The AHEB series offers supervised and programmable input states, including In-Active, Active, Short, and Open. Users can easily configure these input states and input time through the Armatura One security platform.

## Dimensions of Expansion Board







AHEB-0808 AHEB-1602 AHEB-1616



	Gen	eral Information	
	AHEB-0808	AHEB-1602	AHEB-1616 (coming soon)
Primary Power	A DMATUKIA	12 - 24 VDC ± 20%, 550 mA maximum	UTAMATU
On-Board Firmware		ction Firmware for Access Control Mode & Elevator Co Mode Swapping According to AHSC-1000 / AHDU Ser	
RS-485 Connectivity	, VI	Input: RS-485 standard / OSDP V2.2 adicated for AHSC-1000/ AHDU series controller comm Output: RS-485 standard / OSDP V2.2 dedicated for AHEB series I/O expansion board communications.	VKM1
	1*RS-485 8*supervised input (AUX IN) 8*relay output (AUX OUT)	1*RS-485 16*supervised input (AUX IN) 2*relay output (AUX OUT)	1*RS-485 16*configurable I/O ports (AUX IN/OUT) 1* power Input (PWR IN)
Number of Ports	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* 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*power output (PWR OUT)  1*power detection (AC Fail)  1* backup battery detection (BAT Fail)  1*tamper input (TMPR)  1*Reset BUTTON
Inputs	8 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	16 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	Max.16 inputs (Configurable) 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	Max.16 relays (Configurable) 16" Form-C with dry contacts"
	TURA	MATURA	

		AHSC/ AHDU Interface (Access	Control Mode and Elevator Con	trol Mode)
, ol		AHEB-0808	AHEB-1602	AHEB-1616 (coming soon)
YKI	RS-485 Protocol	N.C.	AES-128, OSDP V2 Secure Channel	Melin
	OSDP Mode	9600-115200 bps	OSDP V2.2, asynchronous, half-duplex, 1 start bit, 8 o	data bits, and1 stop bit.
	Max. Supported Floor (Elevator Control Mode)	'	Max.128 floors Management, Upon Combination Suggested Configuration: er with 8pcs*AHEB-1616 (direct connection through Ar re Alarm Port) of AHSC-1000 & AHDU Series Controlle	,
	Advanced Elevator Control Functions	N/A	N/A	YES Support: Automatic Floor Selection, Floor Selection History Logging
	General Elevator Control Functions		YES	
	Data Inputs	OSD	P standards supported. Maximum cable length: 3937ft	. (1200m)



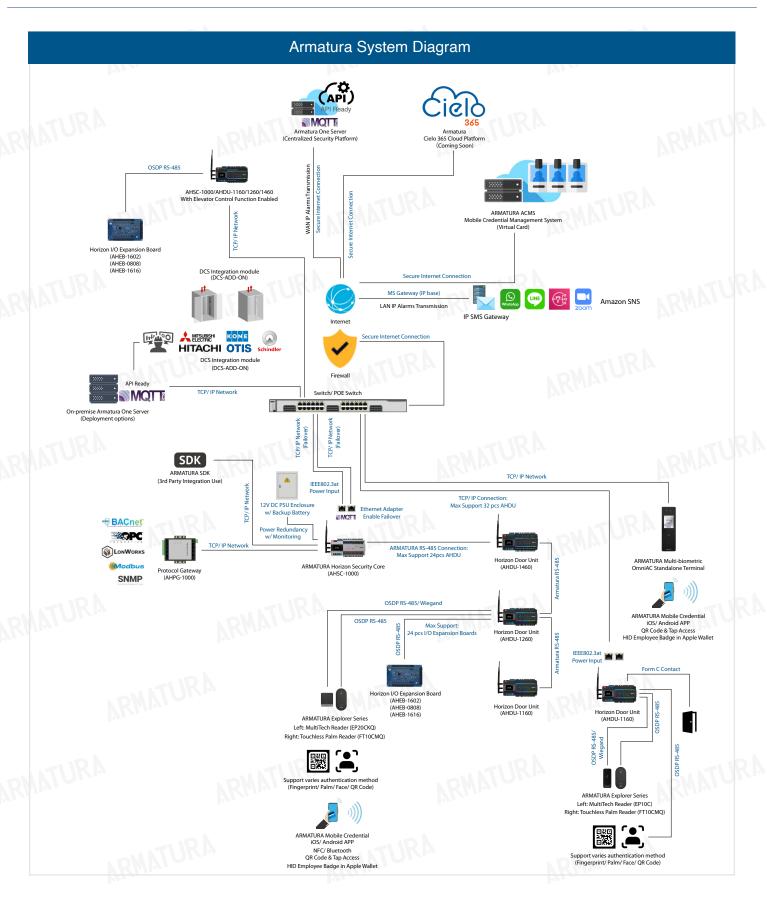
	LATURA	WATURA	-WITUR <sup>M</sup>
	Cak	ole Requirement	
	AHEB-0808	AHEB-1602	AHEB-1616 (coming soon)
Power & Relays	ARMATURIA	12 - 24 VDC ± 20%, 550 mA maximum	ARMATU
RS-485 Port	One twi	sted pair with drain wire and shield, 120 ohm resistance Maximum cable length: 3937ft (1200m)	э, 22-18 AWG,
. 01	INTURA	MATURA	- AUNTURA

	ATURA	- AMATURA	- SMATURA
		Mechanical	
	AHEB-0808	AHEB-1602	AHEB-1616 (coming soon)
Dimensions	ARMATUR	7.6" W x 4.6" L x 0.7" H (193 x 116 x 17.5mm)	ARMATU
Weight	162g (5.71oz)	130.5g (4.6oz)	224.5g (7.9oz)
Mounting		Wall Mount	
las	WINDIAM	* DWVI OKW	VDW VIOLE

	E	nvironmental	
	AHEB-0808	AHEB-1602	AHEB-1616 (coming soon)
Temperature	VKWVI OIC.	-4°F~131°F (-20°C~55°C), Operating & Storage	ARMAIU
Humidity	,,,,	0-95% RHNC	
Certification(s)	ri IRA	CE, FCC, RoHS, UL294, IEC EN/ BS EN 60839 Grade	4 ATURA
Security Rating	Da	ta Storage Encrypted with Certified EAL6+ Crypto Chip	set

	Soft	ware Interface	
	AHEB-0808	AHEB-1602	AHEB-1616 (coming soon)
Supported Software	Armatura One Security System		

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