

AP8001X AEpu IP processing unit

The AP8001X AEOS Processing Unit (AEpu) allows you to configure AEOS to suit all your requirements, simply by adding software components. The precise functionality of this generic security controller is determined by the choice of AEOS software components from an extensive library. Consequently, AEOS can be configured at any time.

- Most powerful controller on the market
- Fully programmable functionality
- Easy processing unit performance boost



Tailor-made functionality

The user specifies the required AEpu functionality by activating AEOS software components. Software components for access control, intruder detection, monitoring and control are linked to the configuration's inputs and outputs first and then activated. The programmed functionality can be modified or expanded both locally and remotely. AEOS automatically detects which equipment is available in the network, following which software components can be allocated in order to provide the desired functionality.

Because the AP8001's functionality is determined by software components, it operates independently of hardware or connected sensors. This results in maximum efficiency when implementing updates or replacing sensors.

Furthermore, the AEpu's processor board can be replaced without affecting the hardware.

Distributed intelligence

The desired functionality (including the relevant authorization profiles) is stored in the AEpu itself. As a result, it independently executes all functions quickly and efficiently regardless of whether it can establish a link to the server or network. It communicates directly with other AEpus or IP-based devices in the network (at 'peer-to-peer' level) without requiring intervention by the server in order to execute the programmed tasks. Events and alarms are stored in the AEpu and communicated to the AEOS server. The use of distributed intelligence results in a solid security management solution that guarantees optimum reliability.

A further advantage is that contact monitoring, alarm control, in/out registration, APB, the 4-eyes principle or security guard patrols can be added at any of the sites operated by a business.

Secure and efficient communication

The AEpu's native IP communication capability allows direct communication with other IP-based devices. A VPN connection is used to safeguard system integrity. A virtual LAN (V-LAN) can be set up to allow secure use of the IP network. This distributed intelligence approach reduces the load on the network to a minimum.

Scalability

The hardware and software components in AEOS are engineered to be fully modular in order to offer maximum flexibility and scalability. As a result, almost any requirements relating to

functionality and the desired level of security can be satisfied. The system can be modified and extended without complication; for example, by adding functionality or by increasing the level of security in planned phases.

Ease of installation and management

After a simple basic training course, technicians are capable of installing the hardware and checking connection integrity. Because the status of the AP8001X can be viewed and analyzed remotely, malfunctions can be resolved faster and more efficiently. The AP8001X can be mounted on a DIN rail.

Technical specifications

Dimensions	L x W x H: 230 x 126 x 70 mm
Weight	Approx. 0.8 kg
Housing	Aluminum and plastic
Power supply	AEbus: 27 VDC, 400 mA
Environmental conditions	Temperature range: Operation: 0 - 55 °C. Storage: -30 - 65 °C Relative humidity: 10 - 93% (non-condensing)
Communication	Ethernet: UTP 100/10 Mbps USB: 2 x USB 2.0 (max. 500 mA per channel) Service: Mini USB
AEbus wiring	5 x 0.5 mm ² , max. 5 m (shielded outside housing) 2 x 2 x 0.5 mm ² shielded, max. 300 m using AX2002
Ethernet wiring	Max. 100 m; UTP CAT 5
Processor	800 MHz, 256 MB SDRAM, 2 GB Flash, 2x USB 2.0

Article number

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