AP7803
AEOS Blue door controller

The AP7803 is an extremely powerful and cost-effective door controller. The ample computing power in combination with intelligent software components, make it possible to utilise all functionalities of the AEOS platform with a single module. Its versatility makes this door controller suitable for use in both new systems and as a replacement for existing access control systems.

- OSDP & OSDP Secure Channel are supported
- Versatile and future-proof
- Designed with internal logic
- Compatible with PoE(+) and 12-27 Volt DC power supply
- SAM socket
- EN60839 certified - grade 4

Future-proof
The functionality of the AP7803 is software-based, which ensures maximum flexibility. It can even control security holding areas, revolving gates and lifts without any additional equipment. Through the software, the AP7803 can be instantly adapted to emerging needs, without the need to replace any hardware.

Intelligence at the edge
The powerful processor makes decisions internally and communicates with other door controllers in the network. This allows each door controller to remain fully operational, even if the connection to the server is lost. This architecture provides an extremely robust and scalable system.

PoE and bus connection
The AP7803 not only makes decisions internally, but can also be powered via Ethernet (PoE), so it is ideal for use as a networked door controller. The AP7803 can also be used in a traditional setup, where substations are controlled through the 485bus, making it possible to use both variants in a single system.

Technical specifications

Dimensions	Housing: 230 x 165 x 65 mm (HxWxD)
	Module: 122 x 120 x 35 mm (HxWxD)
Weight	Housing incl. module: ~0,7 kg, module: ~0,2 kg
Housing	PC ABS
Temperature range	Housing: operating: 0˚C to 45˚C, storage: -30˚C to 65˚C
	Module: operating: 0˚C to 55˚C, storage: -30˚C to 65˚C
Relative humidity	10% to 93% (non-condensing)
Controller	1200 MHz dual core CPU, 1 GB SDRAM, 8 GB flash memory
Ethernet connection	10/100 Mbps, RJ45
485bus connection	RS485 based (non-isolated), jumper selectable end of line, support for up to 32 units
Power over Ethernet	PoE+: IEEE 802.3at
	Readers: 500 mA @ 12 VDC (shared by both readers)
	Locks: 600 mA @ 12 VDC (shared by both locks)
	PoE: IEEE 802.3af, max. 500 mA @ 12 VDC (readers only)
External power supply	12-27 VDC (min. 250 mA, max. 1.5 A @ 12-27 VDC)
	Readers: 500 mA @ Vin (shared by both readers)
	Locks: 600 mA @ Vin (shared by both locks)
Readers	2 x RS485 or 2 x Wiegand
Inputs	2 x 3 secured inputs (Door monitor, Manual unlock, Emergency unlock)
	2 digital inputs (AC OK, Battery low)
Outputs	2 x 1 relay, dry contacts (NC, COM, NO), max. 30 VDC, max. 2 A
	2 x 3 open collector outputs (Green LED, Red LED, Beeper), max. 20 mA each
Tamper detection	1 optical tamper sensor (AP7803)
	1 digital input (for connecting external tamper switch)
Status LEDs	1 Status LED, 1 Power LED, 2 Reader LEDs
Ethernet wiring	UTP CAT 5, max. 100 m
485bus wiring	1 x 2 x 0.22 mm2 shielded (100-120 Ω), max. 1200 m
External power supply wiring	2 x 0.5 mm2 shielded, max. 5 m
Reader wiring	RS485 excl. power: 1 x 2 x 0.22 mm2 shielded, max. 1000 m (depending on reader)
	RS485 incl. power: 2 x 2 x 0.22 mm2 shielded, max. 150 m (depending on reader)
	Wiegand: n x 0.22 mm2 shielded, max. 150 m (depending on reader)
Sensor wiring	n x 0.22 mm2, max. 100 m
SAM socket	1x SAM socket

Article number

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AP7803m	9981624

Subject to change without prior notification