

DAKS-110

The compact
all-rounder



DAKS-110 represents state-of-the-art DAKS technology in a condensed form. With this hardware, we meet the highest standards for security and performance—now even in the entry-level segment of professional alarming.

The solution with tetronik: “Buy to own”

While rental models are becoming increasingly common on the market, tetronik continues to offer a more cost-effective “buy-to-own” model that incurs **no additional usage-based costs**.

Thanks to its long service life (our servers run maintenance-free for years), the cost of a DAKS server amounts to just a few euros per day when calculated over its entire lifespan. In summary, this means for you:

- ✓ No upsell pressure
- ✓ No hidden costs
- ✓ No monthly charges

Unmatched hardware quality

With its ARM processor architecture, DAKS-110—just like the DAKS-400—sets new standards in (cyber) security.

As a result, our current DAKS hardware is

- ✓ even more efficient,
- ✓ even more durable,
- ✓ even more sustainable, and
- ✓ even more user-friendly

than all of its predecessors already were.

Key Features

With its advanced hardware support, DAKS-110 meets even the most stringent security requirements:

- ✓ The ARM processor supports “Secure Boot,” meaning only a signed “U-Boot” can be loaded
- ✓ The signed “U-Boot” loads only a signed operating system
- ✓ The signed operating system loads only signed applications (optional)

DAKS-110 replaces the previous hardware platforms, DAKS-100 and DAKS-200, and thus serves as a powerful hardware foundation for:

- ✓ DAKSeco
- ✓ DAKS-Satellite
- ✓ DAKS-IoT

Technical Specifications

Processor and operating system

- ✓ 64bit ARM Cortex-A53 with Linux™ operating system

Ethernet LAN ports

- ✓ 1x 10/100/1000BASE-T (GbE)

Serial ports *galvanically isolated*

- ✓ 2x RS232, RS422/RS485

USB host ports

- ✓ 1x Type A for contact I/O gateway, printer, modem, etc.
- ✓ 1x Type C for commissioning and service

Digital contact inputs *for process activations and status switching*

- ✓ 16 digital inputs (monitored) on the device
- ✓ Up to 32/64 digital inputs (monitored/unmonitored) via IOG-03 gateway (USB)¹⁾
- ✓ Up to 1024/2048 digital inputs (monitored/unmonitored) via 2x IOG-11A gateway (serial)¹⁾

Digital contact outputs *for process, system, fault, and final fault messages*

- ✓ 8 digital outputs + 1 special relay output on the device
- ✓ Up to 16 digital outputs via IOG-03 gateway (USB)¹⁾
- ✓ Up to 512 digital outputs via IOG-11A gateway (serial)¹⁾

¹⁾ The type and number of I/O gateways and modules that can be connected depend on the software used (DAKSeco or DAKS-IoT in "Satellite" or "Node-RED" operating mode). For more details, please refer to the respective product documentation.

Voice communication

- ✓ 5 to 10 parallel channels (more channels available upon request)

Mass storage

- ✓ Pluggable industrial-grade microSD card

Housing/dimensions

- ✓ Desktop unit (L 165mm x W 105mm x H 45mm, 1U)
- 19-inch mounting kit included (contact I/O variant optional):



Power supply

- ✓ Via Power-over-Ethernet (PoE Class 3)

Power consumption

- ✓ Max. 12W (typically 4W)

Time synchronization

- ✓ Via NTP

System printer interface

- ✓ Connection either via LAN or USB;
Printer protocol: Generic Printer Interface

Other

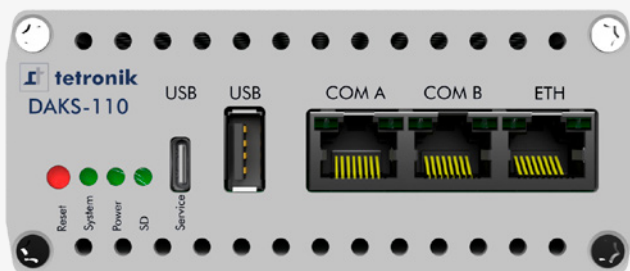
- ✓ Operating temperature: +5°C to +35°C (+41°F to +95°F)
- ✓ Storage temperature: -20°C to +70°C (-4°F to +158°F)
- ✓ Relative humidity: 5% to 80% (non-condensing)

Certifications & country approvals (ISO 3166)

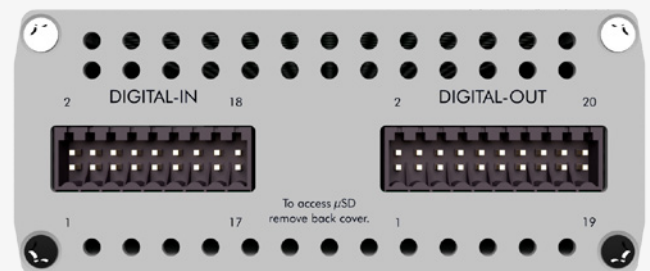
FCC and CE for:

- ✓ EU:
AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK
- ✓ Outside the EU:
AU, CA, CH, CO, GB, HK, ID, ME, MK, MY, NZ, PA, PH, RS, SG²⁾, TR, US

²⁾ available in Singapore only as an industrial product



Front view



Rear view