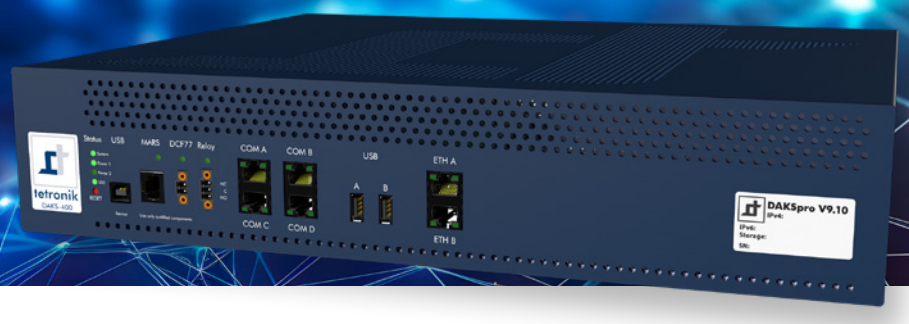
tetronik

DAKS-400

Highly secure and powerful



DAKS-400 is ideally optimized for current and future security requirements and also excels in many other areas thanks to its future-proof, robust architecture.

The tetronik Solution: "Buy to Own"

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

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

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

Unmatched Hardware Quality

With its Arm processor, state-of-the-art encryption algorithms, and separate memory areas, DAKS-400 sets new standards in (cyber) security.

As a result, the latest 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

- ✓ Robust processing computer architecture with a low-power design ("Green IT")
- ✓ Very high availability with MTBF values exceeding 400,000 hours
- ✓ No failure-prone, rotating components: no spinning hard drive, no fan
- ✓ Highest possible functional safety through comprehensive server self-monitoring, including processor-independent fault reporting
- ✓ Highest possible data security through an "industrial-grade" SSD (solid-state drive)
- ✓ Meets even the most stringent security requirements through advanced hardware support:
  - › The 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)
  - › Access to the SSD is password-protected
  - › AES256 encryption of data on the SSD

DAKS®
... because it's about **responsibility**!

Technical Specifications

Operating System

- ✓ Multicore processor system
  - › 64bit Arm Cortex with Linux™ system architecture

Ethernet LAN Ports

- ✓ 2x 10/100/1000BASE-T (GbE) with channel bonding

Serial Ports

galvanically isolated

- ✓ 4x (on the device):
  - › RS232, RS422, or RS485

USB Host Ports

e.g., for contact I/O, system printer, radio modem

- ✓ 2x (on the device)

Digital Contact Inputs

for process activation and status switching

- ✓ Up to 32/64 digital inputs (monitored/unmonitored) via IOG-03A gateway (USB)

Additional digital contact inputs can be implemented via **DAKS-Satellite** or **DAKS-IoT**. For more details, please refer to the respective product documentation.

Digital Contact Outputs

for process, system, fault, and final error messages

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

Additional digital contact outputs can be implemented via **DAKS-Satellite** or **DAKS-IoT**. For more details, please refer to the respective product documentation.

Audio I/O via DAKS-AudioConnect

- ✓ Registered with the PBX or directly with DAKSpro

DCF77 (Radio Clock) Synchronization

- ✓ Optional via the DCF77 port on the device (additional hardware required)

Power Supply

- ✓ Redundant power supply from two separate units (AC/AC)
- ✓ DC/DC or AC/DC configuration available upon request, from 100...240VAC or 36..60VDC (for worldwide deployability)

Power Consumption

- ✓ Max. 33 watts

Significantly Improved Usability

- All ports and interfaces are located on the front for optimal accessibility
- Current operating status is easily recognizable at any time thanks to multicolored LEDs
- The built-in E-Ink display shows important operational information, such as the serial number and the currently installed software version, and remains permanently legible even in the event of a power loss
- Additional ventilation openings on the front and back allow for space-saving installation in a rack

Voice Processing

- ✓ Channel-specific announcement playback, tone and DTMF generation
- ✓ Variable unidirectional and bidirectional voice connections, including conferences (with no hardware-imposed limit on the number of conferences or conference participants)
- ✓ Direct recording and playback of composed announcements, each consisting of up to 32 sub-announcements

Voice Communication

5 to 500 parallel channels (more upon request)

- ✓ VoIP trunking with SIP or SIP-Q signaling; unencrypted or encrypted for up to 500 channels (SRTP; SIP over TLS, SDES)
- ✓ Voice communication with a VoIP sub-system (e.g., a hospital call system)
- ✓ Registrar and switch for SIP phones or **DAKS-AudioConnect** devices registered directly with DAKSpro
- ✓ Support for geo-separation and OpenScape Voice/Branch configurations
- ✓ Codec: 64 kbit/s G.711 A-law or µ-law

SMS Sending

- ✓ Via GSM SMS radio modem (serial connection)
- ✓ Via TCP/IP with UCP or SMPP protocol through a Short Message Service Center (SMSC) or SMS gateway

System Printer Interface

- ✓ Connection via LAN or USB; printer proctocol: Generic Printer Interface

Operating Temperature

- ✓ +5°C to +35°C (+41°F to +95°F)

Storage Temperature

- ✓ -20°C bis +70°C (-4°F to +158°F)

Relative Humidity

- ✓ 5% to 80% (non-condensing)

Certifications

- ✓ FCC and CE

Country Approvals

Country codes according to ISO 3166

- ✓ All EU countries:
  - 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
- ✓ Countries outside the EU:
  - AU, CA, CH, CO, GB, HK, ID, ME, MK, MY, NZ, PA, PH, RS, SG*, TR, US

** Available in Singapore only as an industrial product*

tetronik GmbH

Reliable Alerts, Information, and Communication

Silberbachstr. 10
65232 Taunusstein-Wehen
Germany
info@tetronik.com
www.tetronik.com

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