INU-50: Serial and USB device server
Reliable. Future-proof. Flexible.



THE PERFECT SOLUTION FOR CHALLENGING OPERATING CONDITIONS

In productive industrial environments, it is crucial that devices work reliably and trouble-free - even under extreme conditions. The INU-50 is specially designed for this: With support for two power supplies and a temperature range of -20 °C to 70 °C, it is ideally suited for harsh locations. To ensure smooth operation, the INU-50 offers comprehensive notification functions that immediately inform those responsible about events and faults so that they can be quickly analyzed and fixed.

Easy to integrate and use

The INU-50 can be easily integrated into your network. Simply connect your serial (RS-422/RS-485) or USB devices to the available ports on the INU-50 and use the associated SEH UTN Manager software to establish a direct network connection to the connected devices with just one click. This allows you to use the connected devices as if they were directly connected locally - regardless of whether you need access in the production environment, in the office or remotely. The INU-50 supports IPv4 and IPv6, VLAN, WebDAV, Syslog-NG and is perfectly suited for server-based and virtualized environments, offering maximum flexibility.

Versatile use in industry, manufacturing and the logistics sector

The INU-50 is mounted on a top-hat rail (in accordance with DIN EN 60715; 35 mm wide), making it easy for installation in control cabinets or server racks. With its flexible power supply from 12 V to 24 V, it adapts to the conditions of a wide range of environments. The INU-50 offers maximum compatibility and is suitable for all operating systems, so that it seamlessly integrates serial RS-422/RS-485 devices as well as all USB devices into your company network.

Future-proof and IIoT-ready

The INU-50 protects connected devices from unauthorized access with an encrypted point-to-point connection. As a high-end device, the INU-50 not only optimizes your workflows and saves valuable time, but also enables the seamless integration of existing installations into modern IIoT and Industry 4.0 environments. All your valuable data is well-protected by a well-defined security concept with comprehensive encryption mechanisms. The seamless integration of USB and serial devices into the network means that existing systems can be modernized and optimized without having to carry out expensive reconfigurations or device replacements.

Highlights in a nutshell

- Reliable integration of USB and serial RS-422/RS-485 devices into corporatenetworks
- Robust design for use in temperatures from -20°C to 70°C
- Simple installation on top-hat rail, flexible power requirements from 12 V to 24 V (redundant)
- Gigabit Ethernet
- Fuor Microsoft Windows, macOS and Linux
- Comprehensive security package: Encryption, password protection, certificate management, authentication (802.1X) and more!
- VLAN-enabled (802.1Q)
- Monitoring, logging and notifications
- WebDAV support
- Works in both server-based and virtualized environments
- Automatic device activation with secure, encrypted point-to-point connection
- State-of-the-art security mechanisms ensure compliance with IIoT and Industry 4.0
- Up to 5 years warranty
- Regular software updates
- Free worldwide technical support

Rely on the INU-50 to connect your devices securely and efficiently in demanding industrial environments for productive and future-proof integration into your business processes.

TECHNICAL DATA

Interfaces and Network Connectors

- Gigabit Ethernet (10BaseT/100BaseTX/1000BaseT)
- 2 × USB 2.0 Ports (HighSpeed)
  - Data throughput up to 25 MB/s
- 2 × Receptacle plug (screw terminals) with clamping yoke connection for:
  - Power supply (redundant via 2 power sources)
  - RS-422 / RS-485 connection

Configuration and management

- SEH UTN Manager (Verbindungsverwaltung) for:
  - Microsoft Windows (32/64-Bit; Windows 10, 11, Server 2016 or later)
  - Microsoft Windows (ARM64 CPU; Windows 10, 11)
  - macOS 12 (Monterey), macOS 13 (Ventura), macOS 14 (Sonoma)*
  - Linux (Ubuntu 22.04, Debian 12, Oracle 9, CentOS Stream 9, openSUSE)**
- SEH Product Manager (Netzwerk-Geräte-Verwaltung) for:
  - Microsoft Windows (32/64-Bit; Windows 10 or höher, Server 2016 or later)
  - macOS 12 (Monterey), macOS 13 (Ventura), macOS 14 (Sonoma) or later
- INU Control Center (integrated UI for configuration, administration, monitoring, and maintenance via browser)
- Monitoring and Logging with WebDAV and Syslog-ng-Export
- Email, SNMP, Bonjour

Supported Protocols

- IPv4/IPv6
- TCP/IP:
  DHCP, ARP, TCP, UDP, ICMP, IGMP, TFTP, HTTP/HTTPS, Zeroconf, DNS, SLP, SNMP MIB-2 kompatibel, SNMPv1, SNMPv3, SNTP, SMTP, POP3, SSL/TLS, Bonjour, WebDAV, Syslog etc.

Security

- Encryption: TLS 1.0/1.1/1.2/1.3, HTTPS
- Authentication: 802.1X (EAP-MD5, EAP-TLS, EAP-FAST, EAP-TTLS, PEAP)
- Certificate management: Self-signed certificate, certificate request, CA certificates, PKCS#12 certificate, S/MIME certificate
- SNMPv3
- VLAN (802.1Q)
- TCP port access control
- Device access control (password protection, session login)
- USB port access control (key, device allocation, USB port deactivation)
- USB HID class blocking
- Notifications
- Monitoring and Logging

Supported Languages

- Control Center and SEH UTN Manager: English, German, French, Spanish, Italian, Portuguese, Japanese, Korean, Chinese (traditional and simplified)
- SEH Product Manager: English, German, Japanese

Tests (Notifications)

- CE:
  - EN 61000-6-2:2005, EN 61000-6-3:2007 + A1:2011 + AC:2012, EN 61000-3-2:2006 + A1:2009 + A2:2009, EN 61000-3-3:2008, EN IEC 63000:2018
- FCC:
  - Title 47 part 15, Subpart B, Class B
- UKCA:
  - EN 61000-6-2:2005, EN 61000-6-3:2007 + A1:2011 + AC:2012, EN 61000-3-2:2046 + A1:2009 + A2:2CI49, EN 61000-3-3:2008, EN IEC 63000:2018
- RoHS

Power Supply

- Supply voltage:
  - 10 V (min.) to 28 V (max.) DC voltage with a load capacity of at least 15 W
  - Length of low-voltage cable between power supply unit and INU-50 max. 3 m

Power consumption

- at 12 V:
  - approx. 200 mA without load
  - approx. 850 mA at full load on the USB ports
- at 24 V:
  - approx. 110 mA without load
  - approx. 420 mA at full load on th eUSB ports
- Annual power consumption approx. 23 kWh to 90 kWh depending on the power requirements of the connected devices

Operating environment

- Temperature:
  - -20°C to +60°C (operation at full load on both USB ports)
  - -20°C to +70°C (operation with low workload)
- Relative humidity: 20–80 %

Dimensions & Weight

- Width, height, depth: 22,5 × 118 × 114 mm
- 150 g

Order Numbers

- M07220 (International)

** Isochronous USB mode not supported.*

*** Other distributions can also be used, but have not been explicitly tested. Installation must be carried out under the user's own responsibility. A successful installation cannot be guaranteed due to the variety of Linux systems!*

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