

Wide-ranging security features High degree of flexibility
Maximum investment protection Fan-free operation
Maximum future-proofness Top performance Compact design

MICROSENS



PROFI DESKTOP-SWITCH

 Made
in
Germany



TOP FEATURES

- Gigabit Performance mit Energy-Efficient Ethernet
- PoE+ according to 802.3at (MS453502PM)
PoE according to 802.3af (MS453501PM)
- Comprehensive security features for network and access security
- Compact metal housing, fan-free
- Future enhancement in functionality with firmware upgrades
- Integrated power supply unit with 230 VAC input
- Linux kernel, open standards, long-term availability
- Exchangeable microSD card for firmware and configuration

PROFI DESKTOP-SWITCH

Top security for local networks

The new desktop switches from MICROSENS offer top access security for professional network environments. Besides supporting all the secure protocols (https, SSH, SNMPv3, SFTP), full implementation of IEEE802.1X, the Switch has been certified by the leading manufacturers of NAC systems.

High performance and future-oriented

The new Professional Gigabit Desktop Switches from MICROSENS offer authorities and companies maximum flexibility: compact and reliable, the Switches provide five standardised RJ-45 twisted-pair connections, 10/100/1000Base-T, as well as a variable SFP uplink port with 100/1000Base-X. The integrated PoE+ functionality on four ports also allows terminal devices to be operated with increased power consumption. Yet the switches are convincing with their compact design and noiseless operation.

Future-proof, economical and noiseless

More frequently, users are exploiting the benefits of Power-over-Ethernet and supply their terminal devices with power directly via the Ethernet data connection. In order to be in a position to connect even more powerful terminal devices in the future, such as access points, IP cameras or thin clients, MICROSENS supports the PoE+ IEEE 802.3at standard with up to 30 Watt per port in the Switches. Besides the PoE+ version, the new Gigabit Switches are also available as cost-effective PoE variants in accordance with IEEE 802.3af. An intelligent power management system also monitors the power requirement of the terminal devices connected. The Desktop Switches get by without fans, because they are mainly operated in the immediate proximity of the user. Generally, great importance was placed in development on functionality and reliability, but also on energy efficiency: all switches work with the Energy-Efficient Ethernet standard.

Security and management

The desktop switches have an integrated network management system and support all current security-relevant management and security protocols, such as SNMPv3/SSH/https. At the same time, they can also be confi-

gured and monitored via the optional MICROSENS Network Management Platform (NMP). This platform was specifically developed for administration of all MICROSENS components and enables a high level of system availability, fast reaction times and optimal workflows.

Future-proof device architecture

The hardware of the Profi Desktop Switches is designed today for future functions, which are easy to activate with firmware upgrades. This is facilitated by the latest high-performance switching chipsets in combination with a powerful ARM processor. As an established, stable operating system, Linux offers a solid foundation for an intelligent, open and long-term reliable platform.

SD card for firmware and configuration

All of the switches' configuration data are stored on a secure microSD memory card. So, if a device is replaced, it is sufficient to swap the memory card and all the settings, including the IP and MAC address, are automatically adopted. The new generation of MICROSENS Switches guarantees security of investment, also by integrating IP dual stack, which allows a smooth transition to IPv6 addressing.

Integrated power supply unit

All Gigabit Desktop Switches have a high quality metal housing and are

extremely robust. As they have an integrated power supply unit, they can be connected to 230 VAC either directly or with a mains plug. The Switches can also be wall-mounted to save space.

Quality Made in Germany

The design of the Profi Desktop Switches was developed from the ground up at the site in Germany - with in-house development teams for hardware and software and internal expertise. Development and manufacture „Made in Germany“ make a significant contribution to the product quality. Whether in the field of office networking or in industrial manufacturing - the latest generation of MICROSENS Switches is the best choice wherever high standards are placed on reliability, network security and network access security, as well as performance.

Besides the Desktop Switches, MICROSENS also offers an extensive portfolio of installation switches for professional installation in the floor box or in the wall duct. The MICROSENS „Fiber To The Office“ (FTTO) concept combines the advantages of powerful fiber optics with the flexibility of copper-based twisted-pair cabling.



SOFTWARE FEATURES

Integrated device management

- High-performance CPU with Linux kernel for high system stability by means of embedded function modules
- The scope of functions can be extended by means of firmware updates
- IPv4 and IPv6 dual stack have already been integrated
- Support of 256 VLANs
- Spanning Tree Protocol (STP/RSTP/MSTP)
- Quality-of-Service (QoS) with 4 priorities per port
- Jumbo frames up to 10 kilobytes
- LLDP and LLDP-MED for topology detection

Management Interfaces

- Web Manager with high-performance graphical user interface
- SNMP for the integration into management system platforms
- Comfortable CLI for automation via scripts
- Integrated SFTP server for direct access to device files, e.g. log files, configuration, CLI scripts

NMP (Network Management Platform)

- Integration into MICROSENS NMP software for simple and efficient configuration, administration and monitoring of networks

Security Features

- Port-based authentication according to 802.1X with dynamic VLAN assignment
- Secure protocols for device management, can additionally be switched off individually
- Internal log file permits logging of all system events

Highly Secure Protocols for Device Management

- HTTPS for Web Manager and NMP
- SNMPv3 for management integration
- SSH for Command Line Interface (CLI)
- SFTP for file access



PROFI DESKTOP-SWITCH

1 Gigabit copper ports (4x)

10/100/1000Base-T, Energy-Efficient Ethernet, PoE/PoE+ (802.3at), output (PSE) to supply the devices connected, e.g. WLAN access points, IP cameras, sensors etc.

2 Gigabit copper port (1x)

10/100/1000Base-T, Energy-Efficient Ethernet, network port without PoE/PoE+ function.

3 SFP slot for fiber optic transceiver (1x)

100/1000Base-X (dual speed), SFP slot, market standard SFP transceivers are used.

4 Power supply connection

230 VAC mains plug for the integrated power supply unit with 100..240 VAC wide range input.

5 Terminal port

Serial (RS-232) terminal port for access to the Command Line Interface (CLI). Allows out-of-band management of the device.

6 microSD card

Device configuration and firmware are stored on a microSD card. If the Switch is replaced, the microSD card just needs to be reinserted. All device settings are adopted.

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MICROSENS IS KNOWN FOR COMPETENCE ON THE SECTOR OF ACTIVE FIBER OPTIC SOLUTIONS

For 20 years, MICROSENS has been offering high-quality, active fiber optic components for corporate networks, manufacturing companies, the industrial sector, and access networks. Development and manufacture "Made in Germany" make a significant contribution to the product quality.



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