



wienet SWITCHES

SECURELY NETWORKED

Robust industrial networking solutions for flexible, secure distribution and management of data packets.

HELLO WIELAND ELECTRIC

Over 100 years of safe connections.

As the inventor of safe electrical connection technology, we are committed to individual and safe system solutions.

Together with our broad product portfolio we offer comprehensive services for industry applications as well as building installation and lighting technology.

This experience amounts to Wieland being the global market leader for pluggable, electrical installations in commercial buildings and a dependable partner for machine safety. Our solutions are designed for the secure safety of your team, ensuring that integration of our system is fast and easy while saving time and cost. Thanks to our modular solutions your requirements can be satisfied in a fast, flexible and fail-safe way.

We operate worldwide with subsidiaries, production facilities and sales partners and have an excellent global network. Our specialist teams are supporting customers and projects across the globe - personally and individually. Our competences in engineering, production and logistics processes are interlinked with each other for maximum efficiency.

We are looking forward to exploring all partnership opportunities with you.



1910

founded in Bamberg



1600+

employees worldwide



productio



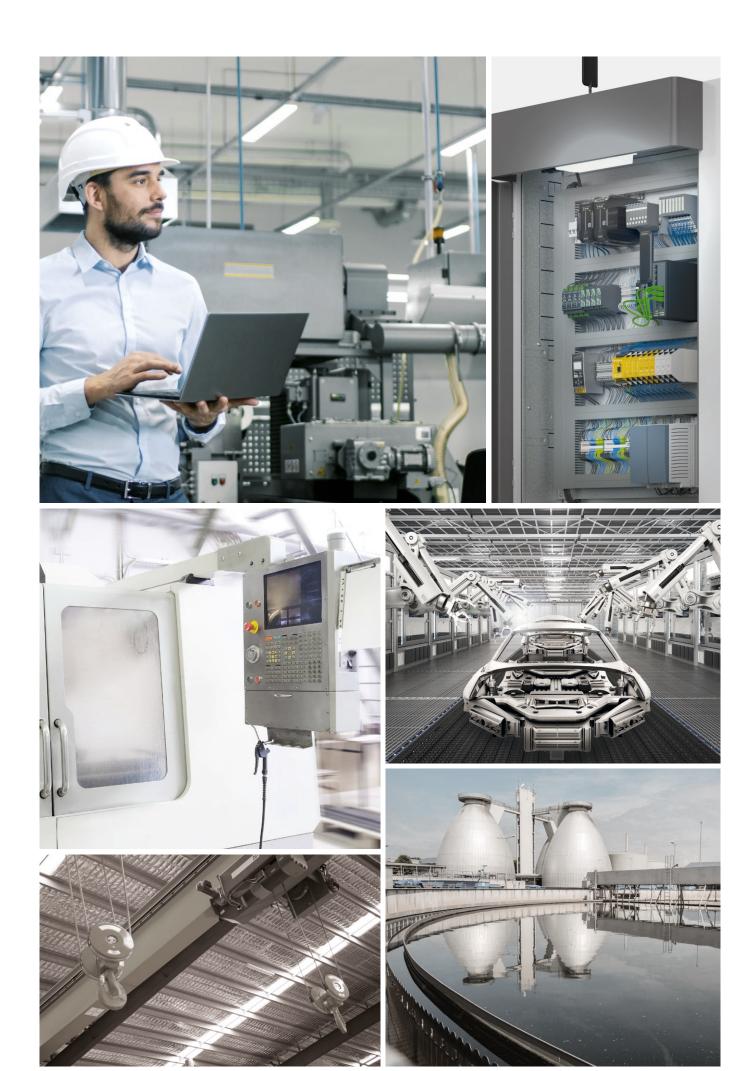
70+

countries worldwide



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INDUSTRIAL **NETWORK TECHNOLOGY** FOR DIVERSE APPLICATIONS.

Modern machines and systems are placing increasingly higher demands on the performance of communication networks. Greater amounts of data from devices within a network are being stored on a server for analysis purposes.

Our wienet product range allows you to organize data traffic within your Ethernet network, and also monitor data leaving the network. Prioritizing data packets and a fail-safe hardware basis play a key role in this process. All devices in the wienet product range are designed to be robust and are best-suited for industrial environments.

SPECIALLY SUITABLE FOR

- + Machine networking
- + Harsh industrial environments
- + Active monitoring



PRODUCTS FOR:

- + INDUSTRIAL

 COMMUNICATION
- + NETWORK
 MONITORING
- + SECURE DATA TRANSMISSION
- + WIRELESS DEVICE ACCESS

WIENET POWER OVER ETHERNET.

Power over Ethernet (PoE) technology makes it easier to set up networks. The same Ethernet cabling is used for both the power supply and data transmission. This technology enables the simplest possible installation or expansion of new or existing networks.

PoE is an intelligent and extensive technology for the power supply. Only suitable consumers are supplied with the required voltage and monitored as well. In case of malfunctions, such as short-circuit or overload, or in case of a physical

supply isolation, the components supplied with voltage are shutdown automatically.

This function can also be used for the very simple and, above all, efficient, remote control and monitoring of consumers. wienet Power over Ethernet switches enable energy and data to be transferred, in accordance with IEEE 802.3, on one Ethernet line.



SUITABLE FOR

- + IP network cameras
- + WLAN access points
- + VoIP telephony
- + Scanners and RFID sensors
- + Anywhere where voltage supply for network devices is difficult

WIENET WIRELESS.

Radio technology (WLAN) is gaining increasing importance both in electronic devices and throughout the plant and machinery engineering sector as a whole. No matter whether Industrial Internet of Things (IIoT), Machine to Machine (M2M), authentication, tracking, tracing, monitoring or remote control.

With Wireless Local Area Network (WLAN), high-frequency radio waves are used instead of wires as the transmission medium for data and communication. Because wired network devices are connected to the Internet via cables, WLAN is a flexible data communication system that is implemented as an expansion or as an alternative to wired LANs. WLAN normally offers a connection to the wider network

via one access point. This gives users the option of move within a local coverage area while remaining connected to the network.

Access Points from the wienet product range allow various devices to make a WLAN connection to the network via one Ethernet interface, or to connect various WLAN/LAN networks to one another.

This connection is configured by means of a password-protected web interface. The web interface offers detailed statistics on the activities of the Access Point concerned, and also on the signal strength, and delivers a detailed report.



SUITABLE FOR

- + Expanding an Ethernet cable network with WLAN functionality
- + Integrating wired network devices (e.g. PLC controls) into an existing WLAN
- + Replacement of network connections that are difficult to wire with transparent WLAN bridges
- + Expansion of existing WLAN networks



WIENET FIBER OPTICS.

Modern communication and information technology demands increasingly larger transmission bandwidths and booster-free, bridgeable section lengths. The requirements for interference resistance are increasing alongside rising disturbance levels. These potentially conflicting demands can only be properly fulfilled with message transmission over fiber optic cables (FOC).

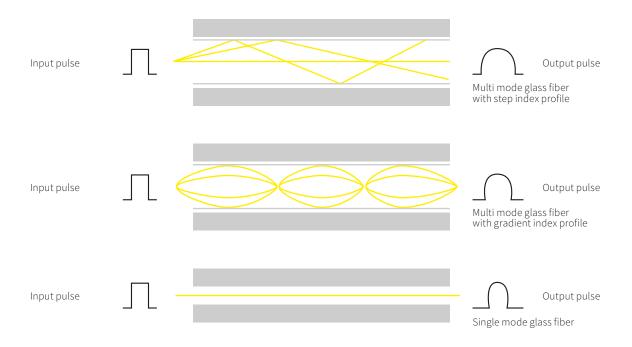


REALIZABLE LENGTHS WITH FIBER-OPTIC TECHNOLOGY

| Fiber | Without connectors | One additional connector | Two additional connectors |
|-----------------------------|--------------------|--------------------------|---------------------------|
| Plastic Optical Fiber (POF) | 50 m | 43.5 m | 37 m |
| Plastic Cladded Fiber (PCF) | 100 m | 100 m | 100 m |
| Multi mode glass fiber | 10 km | 10 km | 10 km |
| Single mode glass fiber | 80 km | 80 km | 80 km |

THE BENEFITS TO YOU:

- + Ideal for long transmission sections and high bandwidths
- + EMC problems are avoided
- + Galvanically isolated potentials
- + Lightning and explosion protection, tap-proof
- + No crosstalk between the fibers
- + SFP modules for the correct FOC connection



INCREASED REQUIREMENTS.

Applications in harsh industrial environments require correspondingly robust and reliable network infrastructure. wienet switches therefore boast features that go above and beyond the standard.

Industrial Ethernet differs from the conventional network infrastructure in that it has to meet higher requirements for the communication devices used.

These requirements include:

- Installation conditions
- Ambient conditions
- Protocols
- Certificates / Approvals

The Industrial Ethernet Switches fulfill such requirements, including:

- Use in the expanded temperature range
- Reliable, redundant power supply for interruption-free communication
- High resistance to electromagnetic disruptions
- Immunity to vibrations and impacts
- Compliance with various certification standards



REDUNDANT POWER SUPPLY INPUTS FOR INDUSTRIAL APPLICATIONS

Two independent power supply inputs ensure the reliable function of the industrial network. All wienet switches have a broad input voltage range.



USE UNDER EXTREME TEMPERATURE CONDITIONS

Extreme operating conditions often prevail in industrial environments. This calls for devices that work cleanly even under severe temperature fluctuations. Most wienet switches have a broad temperature operating range from -40 °C to +75 °C, allowing highly diverse network applications to be realized.



CERTIFIED TO INDUSTRIAL STANDARDS

The robust designs of Wieland Switches are able to achieve a very high standard with respect to electromagnetic compatibility. Many switches are certified to Level 3.

The majority of wienet switches are certified to higher levels and suitable for use with Profinet, Ethernet IP and Modbus TCP protocols.





Backup Power supply







WIENET MANAGED SWITCHES.

wienet Managed Switches achieve the best possible control and diagnosis of industrial Ethernet networks. Configurable ring structures allow redundant topologies and increase the availability of the network.

Integrated Ethernet technologies such as VLAN Tagging, Quality of Service or Port Trunking offer various ways of optimizing the network. With Power over Ethernet (PoE), the ports of the Ethernet switches also supply connected devices with energy at the same time. All switches are certified for use in Profinet networks (Conformance Class A and B) by the PNO (Profinet User Organization). Diverse port variants from 10/100 Base-T(X) RJ45 ports to variable SFP ports through to Gigabit-combi ports allow the selected switches to be optimally adapted to the application environment.





- + More data flow control in the network
- + Data flow optimization through segmentation via VLANs
- + Ethernet packet prioritization for data with real-time requirement
- + PoE+ support, i.e. full 30 W on every PoE port
- + Suitable for Profinet up to CC-B and Ethernet IP
- + EMC Level 3 for highest industry requirements
- + Various possible ways of creating redundant ring topologies

MAXIMUM **AVAILABILITY** + FAIL **SAFE**.

RING REDUNDANCY

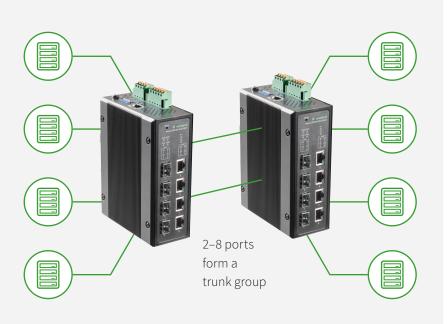
Enables the network to recover autonomously in the event of a connection failure. This ensures maximum availability in industrial network applications. There are various protocols with advantages and disadvantages.

wienet Managed Switches support: ERPS, MRP (for ProfiNet networks), RSTP, STP



PORT TRUNKING TO INCREASE BANDWIDTH

The Link Aggregation Control Protocol (LACP) standardized in IEEE 802.3ad allows multiple several physical LAN interfaces to be bundled into one logical channel. This increases the data throughput and the fail safe rates compared to a simple network interface. With wienet Managed Switches, up to eight ports can be amalgamated into one logical channel.





WIENET INDUSTRIAL ETHERNET SWITCHES.

Ethernet connections are part of many areas of life. The communication between components in automation technology is being increasingly realized using industrial Ethernet, a technology that is becoming more and more prevalent. Ethernet switches are now widely used for the secure networking and coupling between machines or within the system. The common goal of manufacturer and user is to design the networking and configuration of the components more simply and more effectively, and to systematically manage the data flow.

Industrial switches differ from normal switches in various features, all of which are extremely relevant to the industry. With this type of installation, they are usually mounted on a DIN top-hat rail, extended temperature ranges and sometimes redundant power inputs. They are also usually smaller, so they can be accommodated in applications with limited installation space.



- + Redundant power supply
- + Full compatibility in accordance with IEEE 802.3, incl. Autocrossing, Autonegotiation, Autosensing, Autopolarity
- + Complete diagnosis display via various LEDs
- + Compact, robust design
- + Top-hat rail mounting or screw fastening
- + High protection class (IP30)
- + PoE variants
- + Advanced variants (QoS, Jumbo Frame)

FUNCTIONS MATRIX.

| | | MODEL | OPTIONAL |
|------------|----------|---|--------------------|
| | GED | WIENET UMS SERIES UNMANAGED SWITCHES | POE PORTS |
| | UNMANAGE | WIENET UMS-G SERIES UNMANAGED SWITCHES GIGABIT | POE PORTS |
| COMPLEXITY | N N | WIENET UMS-A SERIES UNMANAGED SWITCHES ADVANCED | POE & SFP PORTS |
| СОМР | ED | WIENET FS SERIES FIELDBUS SWITCHES | |
| | MANAG | WIENET L2MS SERIES LAYER 2 MANAGED SWITCHES | POE & SFP PORTS |
| | M | WIENET L2MS-G SERIES LAYER 2 MANAGED SWITCHES GIGABIT | POE & SFP PORTS |

UNMANAGED SWITCHES ARE IDEAL FOR:

- + Quick, simple commissioning
- + Small networks (manageable data volumes)
- + Use in restricted areas
- + Simple interface conversion
- + Applications without the need for remote diagnosis
- + Cost-effective applications

MANAGED SWITCHES ARE REQUIRED WHEN:

- + Remote diagnosis is required
- + Switches are integrated in a monitoring system
- + A detailed assessment of internal statistics is required
- + In constantly expanding networks, monitoring is desirable and early fault detection is required in case of malfunction
- + LAN traffic has to be prioritized to safeguard the most important information

WIENET UNMANAGED SWITCHES.

FAST ETHERNETSWITCHES UMS SERIES



| Model | Art. No. | 10/100 RJ45 ports |
|-------------------|---------------|-------------------|
| wienet UMS 5 | 83.040.1001.0 | 5 |
| wienet UMS 6-L | 83.040.0000.1 | 6 |
| wienet UMS 6 | 83.040.0000.0 | 6 |
| wienet UMS 8 | 83.040.0001.0 | 8 |
| wienet UMS 4-1FM | 83.040.0002.0 | 4 |
| wienet UMS 4-1FS | 83.040.0003.0 | 4 |
| wienet UMS 8-4PoE | 83.040.1203.0 | 8 |
| wienet UMS 16 | 83.040.1334.0 | 16 |
| | | |

GIGABITSWITCHES UMS-G SERIES



| Model | Art. No. | 10/100 RJ45 ports |
|--------------------|---------------|-------------------|
| wienet UMS 5G | 83.040.0130.0 | - |
| wienet UMS 5G-4PoE | 83.040.0131.1 | - |
| wienet UMS 8G | 83.040.0106.0 | - |
| | | |

ADVANCED GIGABITSWITCHES UMS-A SERIES



| Model | Art. No. | 10/100 RJ45 ports |
|-------------------------------|---------------|-------------------|
| wienet UMSA 8G | 83.040.0110.0 | - |
| wienet UMSA 8G-4PoE-24V | 83.040.0112.0 | - |
| wienet UMSA 8G-8PoE-24V | 83.040.0114.0 | - |
| wienet UMSA 10G-2SFP | 83.040.0115.0 | - |
| wienet UMSA 10G-4PoE-2SFP-24V | 83.040.0117.0 | - |
| wienet UMSA 10G-8PoE-2SFP-24V | 83.040.0119.0 | - |
| | | |

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Subject to technical modifications



| 10/100/1000 RJ45 ports | FOC ports | PoE ports | Dimensions W x H x D (mm) |
|------------------------|----------------------|-----------|---------------------------|
| - | - | - | 30 x 120 x 95 |
| - | - | - | 45 x 90 x 80 |
| - | - | - | 45.3 x 90 x 90.5 |
| - | - | - | 45.3 x 90 x 90.5 |
| - | 1 x ST (multi mode) | - | 45.3 x 90 x 90.5 |
| - | 1 x SC (single mode) | - | 45.3 x 90 x 90.5 |
| - | - | 4 | 48.6 x 140 x 95 |
| - | - | - | 74 x 120 x 84 |
| | | | |



| 10/100/1000 RJ45 ports | SFP ports | PoE ports | Dimensions W x H x D (mm) |
|------------------------|-----------|-----------|---------------------------|
| 5 | - | - | 32 x 90 x 110 |
| 5 | - | 4 | 45.3 x 90 x 110 |
| 8 | - | - | 45.3 x 90 x 90.5 |



| 10/100/1000 RJ45 ports | SFP ports | PoE ports | Dimensions W x H x D (mm) |
|------------------------|-----------|-----------|---------------------------|
| 8 | - | - | 54 x 145 x 113 |
| 8 | - | 4 | 54 x 145 x 113 |
| 8 | - | 8 | 54 x 145 x 113 |
| 8 | 2 | = | 54 x 145 x 113 |
| 8 | 2 | 4 | 54 x 145 x 113 |
| 8 | 2 | 8 | 54 x 145 x 113 |
| | | | |



WIENET MANAGED SWITCHES.

INDUSTRIAL PROTOCOL SWITCHES FS SERIES



| Model | Art. No. | 10/100 RJ45 ports |
|-----------------|---------------|-------------------|
| wienet FS 8-EI | 83.040.1500.0 | 8 |
| wienet FS 8-PN | 83.040.1510.0 | 8 |
| wienet FS 16-PN | 83.040.1511.0 | 16 |
| | | |

FAST ETHERNETSWITCHES L2MS SERIES



| Model | Art. No. | 10/100 RJ45 ports |
|-----------------------------|---------------|-------------------|
| wienet L2MS 6-2SFP | 83.040.0200.0 | 4 |
| wienet L2MS 6-4PoE-2SFP | 83.040.0201.0 | 4 |
| wienet L2MS 8-4G-4SFP | 83.040.0210.0 | 4 |
| wienet L2MS 8-4G-4PoE-4SFP | 83.040.0211.0 | 4 |
| wienet L2MS 12-4G-4SFP | 83.040.0220.0 | 8 |
| wienet L2MS 12-4G-4PoE-4SFP | 83.040.0221.0 | 8 |
| wienet L2MS 12-4G-8PoE-4SFP | 83.040.0222.0 | 8 |
| wienet L2MS 20-4G-4SFP | 83.040.0222.0 | 16 |
| | | |

^{*}Combo-Ports: Port number as 10/100/100 RJ45 port or SFP port

GIGABITSWITCHES L2MS-G SERIES



| Model | Art. No. |
|--------------------------|---------------|
| wienet L2MS 4G | 83.040.0300.0 |
| wienet L2MS 4G-4PoE | 83.040.0301.0 |
| wienet L2MS 4G-2SFP | 83.040.0302.0 |
| wienet L2MS 4G-2PoE-2SFP | 83.040.0303.0 |
| wienet L2MS 8G | 83.040.0310.0 |
| wienet L2MS 8G-4SFP | 83.040.0312.0 |
| wienet L2MS 8G-4PoE-4SFP | 83.040.0313.0 |
| wienet L2MS 8G-8PoE | 83.040.0314.0 |
| | |

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| 10/100/1000 RJ45 ports | SFP ports | PoE ports | Additional info | Dimensions W x H x D (mm) |
|------------------------|-----------|-----------|-----------------|---------------------------|
| - | - | - | Ethernet IP | 43 x 120 x 84 |
| - | - | - | ProfiNET | 43 x 120 x 84 |
| - | - | - | ProfiNET | 74 x 120 x 84 |



| 10/100/1000 RJ45 ports | SFP ports | PoE ports | Dimensions W x H x D (mm) |
|------------------------|-----------|-----------|---------------------------|
| - | 2 | - | 60.3 x 137.9 x 164 |
| - | 2 | 4 | 60.3 x 137.9 x 164 |
| (4)* | (4)* | - | 60.3 x 137.9 x 164 |
| (4)* | (4)* | 4 | 60.3 x 137.9 x 164 |
| (4)* | (4)* | - | 60.3 x 137.9 x 164 |
| (4)* | (4)* | 4 | 60.3 x 137.9 x 164 |
| (4)* | (4)* | 8 | 60.3 x 137.9 x 164 |
| (4)* | (4)* | - | 78 x 137.9 x 164 |
| | | | |



| 10/100/1000 RJ45 ports | SFP ports | PoE ports | Dimensions W x H x D (mm) |
|------------------------|-----------|-----------|---------------------------|
| 4 | - | - | 54 x 113 x 145 |
| 4 | - | 4 | 54 x 113 x 145 |
| 2 | 2 | - | 54 x 113 x 145 |
| 2 | 2 | 2 | 54 x 113 x 145 |
| 8 | - | - | 54 x 113 x 145 |
| 4 | 4 | - | 54 x 113 x 145 |
| 4 | 4 | 4 | 54 x 113 x 145 |
| 8 | - | 8 | 54 x 113 x 145 |
| | | | |



WIENET ACCESSORIES.

SFP TRANSCEIVER



| 83.040.0700.0 83.040.0701.0 83.040.0710.0 |
|---|
| 83.040.0710.0 |
| |
| |
| 83.040.0711.0 |
| 83.040.0712.0 |
| 83.040.0713.0 |
| 83.040.0714.0 |
| 83.040.0715.0 |
| |

WIENET WLAN ACCESS POINT.

WLAN ACCESS POINT



| Art. No. | Model |
|---------------|----------------------|
| 83.040.0050.0 | wienet AP-ETH-A |
| 83.040.0051.0 | wienet AP-ETH-A-A |
| 83.040.0052.0 | wienet AP 3P ETH -A |
| 83.040.0053.0 | wienet AP 3P ETH-A-A |
| 83.040.0053.0 | wienet AP 3P ETH-A-A |

WLAN ACCESS POINT ACCESSORIES



| Model | Art. No. | |
|-----------------------------|---------------|--|
| wienet Antenne 15854v2 WIFI | F0.000.0037.4 | |
| wienet Antenne 15874v2 WIFI | F0.000.0037.5 | |
| | | |



| Media type | Data rate |
|-----------------------------------|------------------|
| Glass fiber multi mode (1310 nm) | 155 Mbps |
| Glass fiber single mode (1310 nm) | 155 Mbps |
| Glass fiber multi mode (850 nm) | 1250 Mbps |
| Glass fiber multi mode (1310 nm) | 1250 Mbps |
| Glass fiber single mode (1310 nm) | 1250 Mbps |
| Glass fiber single mode (1310 nm) | 1250 Mbps |
| Copper | 1000 Mbps |
| Copper | 10/100/1000 Mbps |
| | |



| Number of RJ45 ports | Antenna | Dimensions W x H x D (mm) |
|----------------------|-------------------------|---------------------------|
| 1 | Integrated | 48.5 x 109 x 76.5 |
| 1 | External via SMA socket | 48.5 x 109 x 76.5 |
| 3 | Integrated | 48.5 x 109 x 76.5 |
| 3 | External via SMA socket | 48.5 x 109 x 76.5 |
| | | |



| Connection | Mounting method | Dimensions W x H x D (mm) |
|------------|-----------------|---------------------------|
| SMA / M-RP | Magnetic holder | 29 x 223 x 29 |
| SMA/R | Mast and wall | 48 x 82 x 48 |
| | | |



UNMANAGED FAST ETHERNET SWITCHES WIENET UMS SERIES.

wienet Unmanaged Fast Ethernet Switches cover standard functions, and are therefore a simple Plug & Play solution.

They are best suited for entry into industrial ethernet networks and an ideal and cost-effective solution for applications with manageable device subscribers having a low data flow.





- + Allow communication between Ethernet-capable devices
- + Relay information to the correct destination
- + Are supplied with fixed configuration
- + Do not support any Internet Group Management Protocol (IGMP)
- + Connect peripheral devices in network extensions
- + Small, autonomous networks with just a few components
- + Star-topology network installation within the control panel



PERFORMANCE FEATURES

+ Switch method: Store and forward switching mode+ Switch functions: Autocrossing, Autonegotiation

+ Power supply: Redundant power supply

+ Bandwidth: Fast Ethernet

+ Connection: Pluggable terminals

+ Number of ports: 5 to 16 ports

+ Installation: Top hat rail mounting



UNMANAGED FAST ETHERNET SWITCHES · WIENET UMS TECHNICAL DATA









| Description | wienet UMS 5-W | wienet UMS 6-L | wienet UMS 6 | wienet UMS 8 | |
|-------------------------|-----------------|-----------------|---------------|---------------|--|
| Description | Mielier OM2 2-M | MIGHEL ON 2 6-F | Wieller OM2 6 | wienet OMS 8 | |
| Art. No. | 83.040.1001.0 | 83.040.0000.1 | 83.040.0000.0 | 83.040.0001.0 | |
| | | | | | |
| Technical data Ethernet | | | | | |
| Number of ports | 5 | 6 | 6 | 8 | |
| 10/100 RJ45 | 5 | 6 | 6 | 8 | |
| SFP | - | - | - | - | |
| PoE | - | - | - | - | |

Switch properties

| ourten properties | | | | |
|-------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Transmission type | Store and Forward | Store and Forward | Store and Forward | Store and Forward |
| Autonegotiation | Yes | Yes | Yes | Yes |
| Autosensing | Yes | Yes | Yes | Yes |
| Autopolarity | Yes | Yes | Yes | Yes |
| Communication | Full Duplex / Half Duplex |
| Ethernet Standards IEEE | 802.3/8002.3u/802.3x | 802.3/8002.3u/802.3x | 802.3/8002.3u/802.3x | 802.3/8002.3u/802.3x |
| Transmission length | 100 m | 100 m | 100 m | 100 m |
| Topology | Line, star, mesh | Line, star, mesh | Line, star, mesh | Line, star, mesh |

Technical features

| Operating voltage minmax. | 12 - 48 V DC | 9 - 30 V DC | 9 - 30 V DC | 9 - 30 V DC |
|---|------------------------|-----------------------------|-----------------------------|-----------------------------|
| Redundant power supply | 2 power inputs | 2 power inputs | 2 power inputs | 2 power inputs |
| Power consumption max. | 4.5 W | 4.5 W | 4.5 W | 4.5 W |
| Output with PoE ports max. | - | - | - | - |
| Operating temperature minmax. | -40 °C+75 °C | 0°C+60°C | -10 °C+70 °C | -10 °C+70 °C |
| Storage temperature minmax. | -40 °C+85 °C | -20 °C+70 °C | -40 °C+85 °C | -40 °C+85 °C |
| Rel. humidity during operation minmax. (non-condensing) | 10 - 95 % | 5 - 95 % | 5 - 95 % | 5 - 95 % |
| Terminal type | Plug-in screw terminal | Push-in terminal, pluggable | Push-in terminal, pluggable | Push-in terminal, pluggable |

Dimensions

| Width (mm) | 30 | 45 | 45.3 | 45.3 |
|-------------|---------------|---------------|---------------|---------------|
| | 120 | 90 | 90 | 90 |
| Height (mm) | | | | |
| Depth (mm) | 95 | 80 | 80 | 80 |
| Weight | approx. 255 g | approx. 160 g | approx. 260 g | Approx. 270 g |

22 · wienet Subject to technical modifications

UNMANAGED FAST ETHERNET SWITCHES · WIENET UMS TECHNICAL DATA









| Description | wienet UMS 4-1FM | wienet UMS 4-1FS | wienet UMS 8-4PoE-W | wienet LMS 16-W |
|-------------------------|--------------------|---------------------|---------------------|-----------------|
| Art. No. | 83.040.0002.0 | 83.040.0003.0 | 83.040.1203.0 | 83.040.1334.0 |
| Technical data Ethernet | | | | |
| Number of ports | 4 | 4 | 8 | 16 |
| 10/100 RJ45 | 4 | 4 | 8 | 16 |
| FOC ports | 1x ST (multi mode) | 1x SC (single mode) | - | - |
| PoE | - | - | 4 | - |

Switch properties

| ourten properties | | | | |
|-------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Transmission type | Store and Forward | Store and Forward | Store and Forward | Store and Forward |
| Autonegotiation | Yes | Yes | Yes | Yes |
| Autosensing | Yes | Yes | Yes | Yes |
| Autopolarity | Yes | Yes | Yes | Yes |
| Communication | Full Duplex / Half Duplex |
| Ethernet Standards IEEE | 802.3/8002.3u/802.3x | 802.3/8002.3u/802.3x | 802.3/8002.3u/802.3x | 802.3/8002.3u/802.3x |
| Transmission length | 2 km | 20 km | 100 m | 100 m |
| Topology | Line, star, mesh | Line, star, mesh | Line, star, mesh | Line, star, mesh |

Technical features

| recimienticatures | | | | |
|---|-----------------------------|-----------------------------|------------------------|------------------------|
| Operating voltage minmax. | 9 - 30 V DC | 9 - 30 V DC | 24/48 V DC | 8.4 - 52.8 V DC |
| Redundant power supply | 2 power inputs | 2 power inputs | 2 power inputs | 2 power inputs |
| Power consumption max. | 4.5 W | 4.5 W | 72 W (at 48 V DC) | 3.84 W |
| Output with PoE ports max. | - | - | 65 W | - |
| Operating temperature minmax. | -10 °C+70 °C | -10 °C+70 °C | -40 °C+75 °C | -40 °C+75 °C |
| Storage temperature minmax. | -40 °C+85 °C | -40 °C+85 °C | -40 °C+85 °C | -40 °C+85 °C |
| Rel. humidity during operation minmax. (non-condensing) | 5 - 95 % | 5 - 95 % | 5 - 95 % | 10 - 95 % |
| Terminal type | Push-in terminal, pluggable | Push-in terminal, pluggable | Plug-in screw terminal | Plug-in screw terminal |

Dimensions

| Width (mm) | 45.3 | 45.3 | 48.6 | 74 |
|-------------|---------------|---------------|---------------|---------------|
| Height (mm) | 90 | 90 | 140 | 120 |
| Depth (mm) | 80 | 80 | 95 | 84 |
| Weight | approx. 260 g | approx. 260 g | approx. 700 g | approx. 700 g |

| GENERAL TECHNICAL DATA FOR THE SERIES | | | | |
|---------------------------------------|--|--|--|--|
| Mounting method | Top-hat rail/screw fastening | | | |
| Protection class | IP30/IP40 | | | |
| Housing material | Aluminum (excluding wienet UMS 6-L with plastic housing) | | | |
| Diagnosis display | LEDs | | | |
| RoHs | Yes | | | |
| Norms and approvals | FCC Part 15 Class A, CE, UL, cULus | | | |

UNMANAGED GIGABIT SWITCHES WIENET UMS-G SERIES.

The wienet Gigabit Ethernet Switches series was designed primarily to satisfy the requirements of high-performance IP devices. Through the option of Power over Ethernet ports, end devices such as cameras can be supplied via the same transmission medium.





- + Allow communication between Ethernet-capable devices
- + Relay information to the correct destination
- + Are supplied with fixed configuration
- + Full gigabit power on all ports
- + Connect peripheral devices in network extensions
- + PoE+ support, i.e. full 30 Watt on every PoE port
- + Star-topology network installation within the control panel



PERFORMANCE FEATURES

+ Switch method: Store and forward switching mode

+ Switch functions: Autocrossing, Autonegotiation

+ Power supply: Redundant power supply

+ Bandwidth: Fast Ethernet & Gigabit Ethernet

+ Connection: Pluggable terminals

+ Number of ports: 5 to 8 ports

+ Installation: Top hat rail mounting



UNMANAGED GIGABIT SWITCHES · **WIENET** UMS-G **TECHNICAL DATA**







| Description | wienet UMS 5G | wienet UMS 5G-4PoE | wienet UMS 8G |
|-------------------------|---------------|--------------------|---------------|
| Art. No. | 83.040.0130.0 | 83.040.0131.0 | 83.040.0106.0 |
| Technical data Ethernet | | | |
| Number of ports | 5 | 5 | 8 |
| 10/100 RJ45 | 5 | 5 | 8 |
| SFP | - | - | - |
| PoE | - | 4 | - |

Switch properties

| Transmission type | Store and Forward | Store and Forward | Store and Forward |
|--------------------------------------|---|---|------------------------------|
| Autonegotiation | Yes | Yes | Yes |
| Autocrossing (MDI/MDI-X) | Yes | Yes | Yes |
| Autosensing | Yes | Yes | Yes |
| Autopolarity | Yes | Yes | Yes |
| Communication | Full Duplex / Half Duplex | Full Duplex / Half Duplex | Full Duplex / Half Duplex |
| Ethernet Standards IEEE | 802.3/8002.3u/802.3x/802.3ab/ 802.3z/802.1Q/802.1p/802.3az | 802.3/8002.3u/802.3x/802.3ab/ 802.3z/802.1Q/802.1p/802.3az | 802.3/8002.3u/802.3x/802.3ab |
| Transmission length | 100 m | 100 m | 100 m |
| Topology | Line, star, mesh | Line, star, mesh | Line, star, mesh |
| LLDP (Link Layer Discovery Protocol) | Forwarding | Forwarding | - |

Technical features

| Operating voltage minmax. | 12 to 52 V DC | 12 - 52 V DC | 9 - 30 V DC |
|---|-----------------------------|-----------------------------|-----------------------------|
| Redundant power supply | 2 power inputs | 2 power inputs | 2 power inputs |
| Power consumption max. | 4.5 W | 6 W | 4.5 W |
| Output with PoE ports max. | - | 120 W | - |
| Relay output max. | 0.5 A / 24 V DC | 0.5 A / 24 V DC | - |
| Operating temperature minmax. | -40 °C+70 °C | -40 °C+70 °C | -10 °C+70 °C |
| Storage temperature minmax. | -40 °C+85 °C | -40 °C+85 °C | -40 °C+85 °C |
| Rel. humidity during operation minmax. (non-condensing) | 5 - 95 % | 5 - 95 % | 5 - 95 % |
| Terminal type | Push-in terminal, pluggable | Push-in terminal, pluggable | Push-in terminal, pluggable |

Dimensions

| Width (mm) | 32 | 45.4 | 45 |
|-------------|---------------|---------------|---------------|
| Height (mm) | 90 | 110 | 90 |
| Depth (mm) | 110 | 90 | 90.5 |
| Weight | approx. 420 g | approx. 420 g | approx. 255 g |

| CENEDAL TECHNICAL DATA E | OD THE CEDIES |
|--------------------------|------------------------------------|
| GENERAL TECHNICAL DATA F | OR THE SERIES |
| Mounting method | Top-hat rail/screw fastening |
| Protection class | IP30 |
| Housing material | Aluminum |
| Diagnosis display | LEDs |
| RoHs | Yes |
| Norms and approvals | FCC Part 15 Class A, CE, UL, cULus |
| | UL61010-2-201, ULC1D2/ATEX Zone 2 |

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UNMANAGED ADVANCED GIGABIT SWITCHES WIENET UMS-A SERIES.

The wienet Unmanaged Advanced Gigabit Switches series is set apart especially by the broader function range compared to standard unmanaged switches. This switch series is ideally suited for challenging industrial applications, supporting a broad temperature range of -40 °C to +75 °C. As part of its compact design, this switch series is available with a voltage booster for PoE end devices. The PoE Voltage Boost increases the input voltage to the PoE+ level to supply end devices with Power over Ethernet. This eliminates the need for additional, separate power supplies, which can often be expensive and bulky.





- + Allow communication between Ethernet-capable devices
- + Relay information to the correct destination
- + Are supplied with fixed configuration
- + Power over Ethernet Voltage Boost for PoE+ applications
- + Supports data flow control
- + Small, autonomous networks with just a few components
- + Star-topology network installation within the control panel
- + Multi-functional SFP ports for flexible FOC applications (primarily for fast Uplink function)



PERFORMANCE FEATURES

+ Switch method: Store and forward switching mode

+ Switch functions: Autocrossing, Autonegotiation

+ Power supply: Redundant power supply

+ Bandwidth: Gigabit Ethernet

+ Connection: Pluggable terminals

+ Number of ports: 8 (10) ports

+ Ambient temperature: -40 °C to +75 °C

+ Installation: Top hat rail mounting



UNMANAGED ADVANCED GIGABIT SWITCHES **WIENET** UMS-A · **TECHNICAL DATA**







| Description | wienet UMSA 8G | wienet UMSA 8G-4PoE-24V | wienet UMSA 8G-8PoE-24V |
|-------------------------|----------------|-------------------------|-------------------------|
| Art. No. | 83.040.0110.0 | 83.040.0112.0 | 83.040.0114.0 |
| | | | |
| Technical data Ethernet | | | |
| Number of ports | 8 | 8 | 8 |
| 10/100 RJ45 | - | - | - |
| 10/100/1000 RJ45 | 8 | 8 | 8 |
| SFP | - | - | - |
| PoF | - | 4 | 8 |

Switch properties

| Switch properties | | | |
|--------------------------|--|--|--|
| Transmission type | Store and Forward | Store and Forward | Store and Forward |
| Autocrossing (MDI/MDI-X) | Yes | Yes | Yes |
| Communication | Full Duplex / Half Duplex | Full Duplex / Half Duplex | Full Duplex / Half Duplex |
| Ethernet Standards IEEE | 802.3/8002.3u/802.3x/802.3ab/ 802.3af/802.1Q/802.1p/802.3az | 802.3/8002.3u/802.3x/802.3ab/ 802.3af/802.1Q/802.1p/802.3az | 802.3/8002.3u/802.3x/802.3ab/ 802.3af/802.1Q/802.1p/802.3az |
| Transmission length | 100 m | 100 m | 100 m |
| Topology | Lines, star, mains, ring, meshes | Lines, star, mains, ring, meshes | Lines, star, mains, ring, meshes |
| Packet Buffer Size | 2 Mbits | 2 Mbits | 2 Mbits |
| Data flow control | Back pressure and pause frame- based flow control schemes | Back pressure and pause frame- based flow control schemes | Back pressure and pause frame- based flow control schemes |
| MAC Address Table | 16 K | 16 K | 16 K |
| Jumbo frame | 10K Bytes | 10K Bytes | 10K Bytes |
| | | | |

Technical features

| Operating voltage minmax. | 12 to 57 V DC | 12 - 57 V DC | 12 - 57 V DC |
|---|-----------------------------|-----------------------------|-----------------------------|
| Redundant power supply | 2 power inputs | 2 power inputs | 2 power inputs |
| Output with PoE ports max. | 120 W | 120 W | 120 W |
| Relay output max. | 0.5 A / 24 V DC | 0.5 A / 24 V DC | 0.5 A / 24 V DC |
| Operating temperature minmax. | -40 °C+75 °C | -40 °C+75 °C | -40 °C+75 °C |
| Storage temperature minmax. | -40 °C+85 °C | -20 °C+70 °C | -40 °C+85 °C |
| Rel. humidity during operation minmax. (non-condensing) | 5 - 95 % | 5 - 95 % | 5 - 95 % |
| Terminal type | Push-in terminal, pluggable | Push-in terminal, pluggable | Push-in terminal, pluggable |

Dimensions

| Width (mm) | 54 | 54 | 54 |
|-------------|---------------|---------------|---------------|
| Height (mm) | 145 | 145 | 145 |
| Depth (mm) | 113 | 113 | 113 |
| Weight | approx. 700 g | approx. 700 g | approx. 700 g |

| GENERAL TECHNICAL DATA FOR THE SERIES | | |
|---------------------------------------|------------------------------------|--|
| Mounting method | Top-hat rail | |
| Protection class | IP30 | |
| Housing material | Aluminum | |
| Diagnosis display | LEDs | |
| RoHs | Yes | |
| Norms and approvals | FCC Part 15 Class A, CE, UL, cULus | |

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UNMANAGED ADVANCED GIGABIT SWITCHES **WIENET** UMS-A · **TECHNICAL DATA**







| Description | wienet UMSA 10G-2SFP | wienet UMSA 10G-4PoE-2SFP-24V | wienet UMSA 10G-8PoE-2SFP-24V |
|-------------------------|----------------------|-------------------------------|-------------------------------|
| Art. No. | 83.040.0115.0 | 83.040.0117.0 | 83.040.0119.0 |
| | | | |
| Technical data Ethernet | | | |
| Number of ports | 10 | 10 | 10 |
| 10/100 RJ45 | - | - | - |
| 10/100/1000 RJ45 | 8 | 8 | 8 |
| SFP | 2 | 2 | 2 |
| DoE | _ | 1 | 8 |

Switch properties

| Switch properties | | | |
|--------------------------|--|--|--|
| Transmission type | Store and Forward | Store and Forward | Store and Forward |
| Autocrossing (MDI/MDI-X) | Yes | Yes | Yes |
| Communication | Full Duplex / Half Duplex | Full Duplex / Half Duplex | Full Duplex / Half Duplex |
| Ethernet Standards IEEE | 802.3/8002.3u/802.3x/802.3ab/ 802.3af/802.1Q/802.1p/802.3az | 802.3/8002.3u/802.3x/802.3ab/ 802.3af/802.1Q/802.1p/802.3az | 802.3/8002.3u/802.3x/802.3ab/ 802.3af/802.1Q/802.1p/802.3az |
| Transmission length | 2 km (FOC single mode) / 30 km (FOC multi mode) | 2 km (FOC single mode) / 30 km (FOC multi mode) | 2 km (FOC single mode) / 30 km (FOC multi mode) |
| Topology | Lines, star, mains, ring, meshes | Lines, star, mains, ring, meshes | Lines, star, mains, ring, meshes |
| Packet Buffer Size | 2 Mbits | 2 Mbits | 2 Mbits |
| Data flow control | Back pressure and pause frame- based flow control schemes | Back pressure and pause frame- based flow control schemes | Back pressure and pause frame- based flow control schemes |
| MAC Address Table | 16 K | 16 K | 16 K |
| Jumbo frame | 10K Bytes | 10K Bytes | 10K Bytes |
| | | | |

Technical features

| Operating voltage minmax. | 12 to 57 V DC | 12 - 57 V DC | 12 - 57 V DC |
|---|-----------------------------|-----------------------------|-----------------------------|
| Redundant power supply | 2 power inputs | 2 power inputs | 2 power inputs |
| Output with PoE ports max. | 120 W | 120 W | 120 W |
| Relay output max. | 0.5 A / 24 V DC | 0.5 A / 24 V DC | 0.5 A / 24 V DC |
| Operating temperature minmax. | -40 °C+75 °C | -40 °C+75 °C | -40 °C+75 °C |
| Storage temperature minmax. | -40 °C+85 °C | -40 °C+85 °C | -40 °C+85 °C |
| Rel. humidity during operation minmax. (non-condensing) | 5 - 95 % | 5 - 95 % | 5 - 95 % |
| Terminal type | Push-in terminal, pluggable | Push-in terminal, pluggable | Push-in terminal, pluggable |

Dimensions

| Width (mm) | 54 | 54 | 54 |
|-------------|---------------|---------------|---------------|
| Height (mm) | 145 | 145 | 145 |
| Depth (mm) | 113 | 113 | 113 |
| Weight | approx. 700 g | approx. 700 g | approx. 700 g |

| GENERAL TECHNICAL DATA FO | PR THE SERIES |
|---------------------------|------------------------------------|
| Mounting method | Top-hat rail |
| Protection class | IP30 |
| Housing material | Aluminum |
| Diagnosis display | LEDs |
| RoHs | Yes |
| Norms and approvals | FCC Part 15 Class A, CE, UL, cULus |

INDUSTRIAL PROTOCOL SWITCHES WIENET FS SERIES.

wienet Industrial Protocol Switches make your machinery network part of the entire automation solution within the system environment. The switches are integrated into the hardware planning directly (with Profinet via GSDML file). Using these switches increases the performance level in your industrial Ethernet networks. The comprehensive diagnosis information means you have quality and capacity utilization in your network fully under control at all times.





- + In machinery networks in which PROFINET or Ethernet/IP is used
- + In machinery networks where simple handling of a managed switch is important
- + Are managed switches especially for industrial communication protocols
- + Integrate directly into the automation environment
- + Integrated diagnosis functions up to Ethernet device level and port level



PERFORMANCE FEATURES

+ Switch method: Store and forward switching mode

+ Configuration: Web interface

+ Diagnosis: LEDs, web interface, SNMP, bus protocol

relay alarm outputs

+ Power supply: Redundant power supply

Redundant power supply Broad voltage input 8.4 - 52.8 V DC

+ Ambient temperature: -40 °C to +75 °C

+ Number of ports: 8 or 16 ports



INDUSTRIAL PROTOCOL SWITCHES · WIENET FS TECHNICAL DATA







| Description | wienet FS8-PN | wienet FS16-PN | wienet FS-EI |
|---|--|--|--|
| Art. No. | 83.040.1510.0 | 83.040.1511.0 | 83.040.1500.0 |
| Technical data Ethernet | | | |
| Number of ports | 8 | 16 | 8 |
| | 8 | 16 | 8 |
| 10/100 RJ45 | 8 | 10 | 8 |
| Switch properties | | | |
| Industrial Ethernet protocol | ProfiNET | ProfiNET | EtherNet/IP |
| Transmission type | Store and Forward | Store and Forward | Store and Forward |
| Autonegotiation | Yes | Yes | Yes |
| Autocrossing (MDI/MDI-X) | Yes | Yes | Yes |
| Autosensing | Yes | Yes | Yes |
| Communication | Full Duplex / Half Duplex | Full Duplex / Half Duplex | Full Duplex / Half Duplex |
| Ethernet Standards IEEE | 802.3/8002.3u/802.3x/802.1D/ 802.1w/802.1p/802.1Q/ 802.3ad/802.3az | 802.3/8002.3u/802.3x/802.1D/ 802.1w/802.1p/802.1Q/ 802.3ad/802.3az | 802.3/8002.3u/802.3x/802.1D/ 802.1w/802.1p/802.1Q/ 802.3ad/802.3az |
| Topology | Lines, star, mains, ring, meshes | Lines, star, mains, ring, meshes | Lines, star, mains, ring, meshes |
| Packet Buffer Size | 4.1 Mbits | 4.1 Mbits | 4.1 Mbits |
| Switch Fabric Speed | 3.2 Gbps | 3.2 Gbps | 3.2 Gbps |
| Jumbo frame | 9216 Bytes | 9216 Bytes | 9216 Bytes |
| VLAN | VLAN ID 1-4094 | VLAN ID 1-4094 | VLAN ID 1-4094 |
| Port Mirroring | Per port, Multi source port | Per port, Multi source port | Per port, Multi source port |
| IP Multicast | IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave | IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave | IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave |
| Storm Control | Broadcast, Multicast, Unknown unicast | Broadcast, Multicast, Unknown unicast | Broadcast, Multicast, Unknown unicast |
| - 1 * 16 . | | | |
| Technical features Operating voltage minmax. | 8.4 - 52.8 V DC | 8.4 - 52.8 V DC | 8.4 - 52.8 V DC |
| Redundant power supply | 2 power inputs | 2 power inputs | 2 power inputs |
| Power consumption max. | 5.2 W | 8 W | 5.2 W |
| Relay output max. | 0.5 A / 24 V DC | 0.5 A / 24 V DC | 0.5 A / 24 V DC |
| Operating temperature minmax. | -40 °C+75 °C | -40 °C+75 °C | -40 °C+75 °C |
| Storage temperature minmax. | -40 °C+85 °C | -40 °C+85 °C | -40 °C+85 °C |
| Rel. humidity during operation minmax. (non-condensing) | | 10 - 95 % | 10 - 95 % |
| Terminal type | Plug-in screw terminal | Plug-in screw terminal | Plug-in screw terminal |
| Dimensions | | | |
| Width (mm) | 43 | 74 | 43 |
| Height (mm) | 120 | 120 | 120 |
| Depth (mm) | 84 | 84 | 84 |
| Depth (IIIII) | UT | UT | UT |

| GENERAL TECHNICAL DATA FOR THE SERIES | | |
|---------------------------------------|------------------------------------|--|
| Mounting method | Top-hat rail | |
| Protection class | IP30 | |
| Housing material | Aluminum | |
| Diagnosis display | LEDs | |
| RoHs | Yes | |
| Norms and approvals | FCC Part 15 Class A, CE, UL, cULus | |

approx. 670 g

approx. 550 g

approx. 550 g

Weight



WIENET LAYER 2 MANAGED SWITCHES.

QUALITY OF SERVICE (QOS)

IEEE 802.1p describes how data traffic can be prioritized. wienet Managed Switches support QoS, thereby allowing the highest priority data in industrial Ethernet networks to be relayed first at all times. This enhances network performance and ensures that time-critical applications can be communicated as the highest priority.



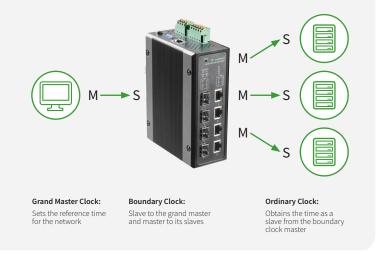


VLAN

Virtual LAN networks (VLAN) allow the segmenting of the network. A VLAN is a logical subnetwork within a switch or an entire physical network. It can extend over multiple switches. wienet Managed Switches relay data packets (Ethernet frames) only to those nodes located in a VLAN. The facility to isolate Ethernet networks with VLANs from one another increases security during the data transmission, thereby offering additional protection from unauthorized access or data traffic.

PRECISION TIME PROTOCOL

IEEE 1588 PTO describes the Precision Time Protocol (PTP). Real-time clocks located at certain nodes are synchronized within a distributed network. wienet Managed Switches support time synchronization according to IEEE 1588 PTP. Consequently, distributed clocks are synchronized to within nanoseconds. This makes wienet Managed Switches the ideal solution for motion control applications as well.





MULTICAST FILTER

IGMP (Internet Group Management Protocol) and GMRP (Generic Multicast Registration Protocol) are protocols which restrict multicast data traffic. Data packets are only forwarded to the end-user devices that actually need them. This reduces unnecessary data traffic on the network.



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TOPOLOGY RECOGNITION WITH LLDP

The LLD protocol (Link Layer Discovery Protocol) described in IEEE 802.1 is a Data Link Layer Protocol, which discloses a device's information, such as its IP address, description and functionalities to adjacent devices via the network. wienet Managed Switches fully support LLDP. The network management software "wienet Manager" identifies and manages LLDP-capable devices. "wienet Manager" uses this information to automatically create accurate network topologies and manage information about connected devices.

SEVERAL PATHS LEAD TO THE RIGHT CONFIGURATION

This allows wienet Managed Switches to be simply configured via a web browser, Telnet console, MIB or Hyper Terminal. Various access options can be selected, depending on personal preferences. In addition, the switch configuration can be saved and firmware updates run using these tool.



MANAGED FAST ETHERNET SWITCHES WIENET L2MS SERIES.

wienet Managed Fast Ethernet Switches are extremely reliable and error-tolerant Industrial Managed (PoE-) Ethernet Switches. The recovery time of less than 20 ms allows self-repairing redundant backup networks to be realized. With a multi-functional web-based user interface, the switches offer intelligent functions such as Quality of Service (QoS), virtual LAN (VLAN), IGMP, port mirroring and security. The wienet Managed Fast Ethernet series was developed for industrial, robust applications.





- + More data flow control on the network
- + Data flow optimization through segmentation via VLANs
- + Ethernet packet prioritization for data with real-time requirement
- + PoE+ support, i.e. full 30 W on every PoE port
- + Suitable for Profinet up to CC-B and Ethernet IP
- + EMC Level 3 for highest industry requirements
- + Various ways of creating redundant ring topologies
- + Multi-functional SFP ports for flexible FOC applications (primarily for fast Uplink function)



PERFORMANCE FEATURES

Store and forward switching mode + Switch method: Ethernet packet prioritization for data + Prioritization:

with real-time requirement

+ Configuration: Web interface

LEDs, web interface, SNMP, bus protocol, + Diagnosis:

relay alarm outputs

+ Power supply: Redundant power supply

Broad voltage input 9 - 57 V DC

+ Ambient temperature: -40 °C to +75 °C

+ Number of ports: 4 to 12 ports



ROHS (& CUL) US LISTED FCC



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MANAGED FAST ETHERNET SWITCHES · WIENET L2MS TECHNICAL DATA









| Description wienet | L2MS 6-2SFP | L2MS 6-4PoE-2SFP | L2MS 8-4G-4SFP | L2MS 8-4G-4PoE-4SFP |
|---|--|--|--|--|
| Art. No. | 83.040.0200.0 | 83.040.0201.0 | 83.040.0210.0 | 83.040.0211.0 |
| | | | | |
| Technical data Ethernet | | | | |
| Number of ports | 6 | 6 | 8 | 8 |
| 10/100 RJ45 | 4 | 4 | 4 | 4 |
| 10/100/1000 RJ45 | - | - | (4)* | (4)* |
| SFP | 2 | 2 | (4)* | (4)* |
| PoE | - | 4 | - | 4 |
| Conitado muso austino | | | | |
| Switch properties Transmission type | Store and Forward | Store and Forward | Store and Forward | Store and Forward |
| Autonegotiation | Yes | Yes | Yes | Yes |
| Autocrossing (MDI/MDI-X) | Yes | Yes | Yes | Yes |
| 9 1 7 | Yes | Yes | Yes | Yes |
| Autosensing | | | | |
| Communication Ethernet Standards IEEE | Full Duplex / Half Duplex 802.3/8002.3u/802.3z/ |
| Etnernet Standards IEEE | 802.3g/802.3u/802.3z/ 802.3Q/802.3p/802.3x/ 802.3af/802.3at/802.3az/ 802.1D/802.1w/802.1X/ 802.3ad | 802.39(802.3p/802.3z/ 802.3Q/802.3p/802.3x/ 802.3af/802.3at/802.3az/ 802.1D/802.1w/802.1X/ 802.3ad | 802.3/8002.3u/802.3z/ 802.3Q/802.3p/802.3x/ 802.3af/802.3at/802.3az/ 802.1D/802.1w/802.1X/ 802.3ad | 802.36/802.3w/802.3z/ 802.3Q/802.3p/802.3x/ 802.3af/802.3at/802.3az/ 802.1D/802.1w/802.1X/ 802.3ad |
| Transmission length | 100 m | 100 m | 100 m | 100 m |
| Topology | Lines, star, mains, ring, meshes |
| Supported protocols | ProfiNet (CC A, CC B), Ethernet-IP, Modbus-TCP |
| Packet Buffer Size | 12 Mbits | 12 Mbits | 12 Mbits | 12 Mbits |
| Data flow control | Back pressure and pause frame-based flow control schemes | Back pressure and pause frame-based flow control schemes | Back pressure and pause frame-based flow control schemes | Back pressure and pause frame-based flow control schemes |
| MAC address table | 16K | 16K | 16K | 16K |
| Priority levels | 8 | 8 | 8 | 8 |
| VLAN | VLAN ID 1-4094 | VLAN ID 1-4094 | VLAN ID 1-4094 | VLAN ID 1-4094 |
| | | | | |
| Technical features | | | | |
| Operating voltage minmax. | 18 - 30 V DC | 9 - 48 V DC | 9 - 48 V DC | 9 - 48 V DC |
| Redundant power supply | 2 power inputs | 2 power inputs | 2 power inputs | 2 power inputs |
| Power consumption max. | 18 W | 18 W | 18 W | 18 W |
| Output with PoE ports max. | - | 120 W | - | 120 W |
| Relay output max. | 2x2A/30VDC | 2x 2 A / 30 V DC | 2x 2 A / 30 V DC | 2x 2 A / 30 V DC |
| Operating temperature minmax. | -20 °C+70 °C | -20 °C+70 °C | -20 °C+70 °C | -20 °C+70 °C |
| Storage temperature minmax. | -40 °C+85 °C | -40 °C+85 °C | -40 °C+85 °C | -40 °C+85 °C |
| Rel. humidity during operation minmax. (non-condensing) | 5 - 95 % | 5 - 95 % | 5 - 95 % | 5 - 95 % |
| Terminal type | Push-in terminal, pluggable | Push-in terminal, pluggable | Push-in terminal, pluggable | Push-in terminal, pluggable |
| Reset switch | Yes | Yes | Yes | Yes |
| DIP switch | Yes | Yes | Yes | Yes |
| | | | | |
| Dimensions | | | | |
| | 60.3 | 60.3 | 60.3 | 60.3 |
| Dimensions Width (mm) Height (mm) | 60.3 | 60.3 | 60.3 | 60.3 |
| | 60.3 137.9 164 | 60.3 137.9 164 | 60.3 137.9 164 | 60.3 137.9 164 |

^{*}Combo-Ports: Port number as 10/100/100 RJ45 port or SFP port

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MANAGED FAST ETHERNET SWITCHES · WIENET L2MS TECHNICAL DATA









| Description wienet | L2MS 12-4G-4SFP | L2MS 12-4G-4PoE-4SFP | L2MS 12-4G-8PoE-4SFP | L2MS 20-4G-4SFP |
|---|--|--|--|--|
| Art. No. | 83.040.0220.0 | 83.040.0221.0 | 83.040.0222.0 | 83.040.0223.0 |
| | | | | |
| Technical data Ethernet | | | | |
| Number of ports | 12 | 12 | 12 | 20 |
| 10/100 RJ45 | 8 | 8 | 8 | 16 |
| 10/100/1000 RJ45 | (4)* | (4)* | (4)* | (4)* |
| SFP | (4)* | (4)* | (4)* | (4)* |
| PoE | - | 4 | 8 | - |
| | | | | |
| Switch properties | Store and Forward | Store and Forward | Store and Forward | Store and Farward |
| Transmission type | | Store and Forward | | Store and Forward |
| Autonegotiation | Yes | Yes | Yes | Yes |
| Autocrossing (MDI/MDI-X) | Yes | Yes | Yes | Yes |
| Autosensing | Yes | Yes | Yes | Yes |
| Communication | Full Duplex / Half Duplex |
| Ethernet Standards IEEE | 802.3/8002.3u/802.3z/ 802.3Q/802.3p/802.3x/ 802.3af/802.3at/802.3az/ 802.1D/802.1w/802.1X/ 802.3ad | 802.3/8002.3u/802.3z/ 802.3Q/802.3p/802.3x/ 802.3af/802.3at/802.3az/ 802.1b/802.1w/802.1X/ 802.3ad | 802.3/8002.3u/802.3z/ 802.3Q/802.3p/802.3x/ 802.3af/802.3at/802.3az/ 802.1b/802.1w/802.1X/ 802.3ad | 802.3/8002.3u/802.3z/ 802.3Q/802.3p/802.3x/ 802.3af/802.3at/802.3az/ 802.1D/802.1w/802.1X/ 802.3ad |
| Transmission length | 100 m | 100 m | 100 m | 100 m |
| Topology | Lines, star, mains, ring, meshes | Lines, star, mains, ring, meshes | Lines, star, mains, ring, meshes | Lines, star, mains, ring, meshes |
| Supported protocols | ProfiNet (CC A, CC B), Ethernet-IP, Modbus-TCP |
| Packet Buffer Size | 12 Mbits | 12 Mbits | 12 Mbits | 12 Mbits |
| Data flow control | Back pressure and pause frame-based flow control schemes | Back pressure and pause frame-based flow control schemes | Back pressure and pause frame-based flow control schemes | Back pressure and pause frame-based flow control schemes |
| MAC address table | 16K | 16K | 16K | 16K |
| Priority levels | 8 | 8 | 8 | 8 |
| VLAN | VLAN ID 1-4094 | VLAN ID 1-4094 | VLAN ID 1-4094 | VLAN ID 1-4094 |
| | | | | |
| Technical features | | | | |
| Operating voltage minmax. | 18 - 30 V DC | 9 - 48 V DC | 9 - 48 V DC | 9 - 48 V DC |
| Redundant power supply | 2 power inputs | 2 power inputs | 2 power inputs | 2 power inputs |
| Power consumption max. | 18 W | 18 W | 18 W | 18 W |
| Output with PoE ports max. | - | 120 W | 240 W | - |
| Relay output max. | 2x2A/30VDC | 2x 2 A / 30 V DC | 2x 2 A / 30 V DC | 2x 2 A / 30 V DC |
| Operating temperature minmax. | -20 °C+70 °C | -20 °C+70 °C | -20 °C+70 °C | -20 °C+70 °C |
| Storage temperature minmax. | -40 °C+85 °C | -40 °C+85 °C | -40 °C+85 °C | -40 °C+85 °C |
| Rel. humidity during operation minmax. (non-condensing) | 5 - 95 % | 5 - 95 % | 5 - 95 % | 5 - 95 % |
| Terminal type | Push-in terminal, pluggable | Push-in terminal, pluggable | Push-in terminal, pluggable | Push-in terminal, pluggable |
| Reset switch | Yes | Yes | Yes | Yes |
| DIP switch | Yes | Yes | Yes | Yes |
| Dimensions | | | | |
| Width (mm) | 60.3 | 60.3 | 60.3 | 78 |
| | 137.9 | 137.9 | 137.9 | 137.9 |
| Height (mm) | 164 | 164 | | 164 |
| Depth (mm) | | | 164 | |
| Weight | approx. 1200 g | approx. 1200 g | approx. 1200 g | approx. 1400 g |

*Combo-Ports: Port number as 10/100/100 RJ45 port or SFP port

| GENERAL TECHNICAL DATA FOR THE SERIES | | | |
|---------------------------------------|---|--|--|
| Mounting method | Top-hat rail | | |
| Protection class | IP30 | | |
| Housing material | Aluminum | | |
| Diagnosis display | LEDs | | |
| MTBF | 11 years | | |
| RoHs | Yes | | |
| Norms and approvals | FCC Part 15 Class A, CE, UL, cULus, CSA | | |

MANAGED GIGABIT SWITCHES WIENET L2MS-G SERIES.

wienet Managed Gigabit series offers full industrial functionality. The series was developed for an extremely reliable, error-tolerant and extremely fast network connection in harsh environments. The wienet Managed Gigabit series in the compact top-hat rail housing design allows the user to choose between various connection combinations. The Profinet CC-B and Ethernet/IP-compatible switches are designed specifically for the automation sector.





- + Full gigabit power on all ports
- + More data flow control on the network
- + Data flow optimization through segmentation via VLANs
- + Ethernet packet prioritization for data with real-time requirement
- + PoE+ support, i.e. full 30 W on every PoE port
- + Suitable for Profinet up to CC-B and Ethernet IP
- + Ring topologies ERPS, RSTP, STP, MRP (Client)
- + IEEE 1588v2 Precision Time Protocol HW-Based Transparent Clock



PERFORMANCE FEATURES

+ Switch method: Store and forward switching mode + Prioritization:

Ethernet packet prioritization for data

with real-time requirement

+ Configuration: Web interface

LEDs, web interface, SNMP, bus protocol, + Diagnosis:

relay alarm outputs

+ Power supply:

Redundant power supply Broad voltage input 9 - 57 V DC

+ Ambient temperature: -40 °C to +75 °C

+ Number of ports: 4 to 12 ports





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MANAGED GIGABIT SWITCHES · **WIENET** L2MS-G **TECHNICAL DATA**









| Description | wienet L2MS 4G | wienet L2MS 4G-4PoE | wienet L2MS-4G-2SFP | wienet L2MS 4G-2PoE-2SFP |
|---|--|---|--|--|
| Art. No. | 83.040.0300.0 | 83.040.0301.0 | 83.040.0302.0 | 83.040.0303.0 |
| Technical data Ethernet | | | | |
| Number of ports | 4 | 4 | 4 | 4 |
| 10/100 RJ45 | 4 | 4 | 2 | 2 |
| SFP | - | - | 2 | 2 |
| PoE | - | 4 | - | 2 |
| Switch properties | | | | |
| Transmission type | Store and Forward | Store and Forward | Store and Forward | Store and Forward |
| Ethernet Standards IEEE | 802.3/8002.3u/802.3z/802 .3ab/802.3Q/802.3p/802.3x /802.3af/802.3at/802.3az/ 802.1D-2004/802.1s/802.1w/ 802.1X/802.3ad | 802.3/8002.3u/802.3z/802 .3ab/802.3Q/ 802.3p/802.3x /802.3af/802.3at/802.3az/ 802.1D-2004/802.1s/802.1w/ 802.1X/802.3ad | 802.3/8002.3u/802.3z/802 .3ab/802.3Q/802.3p/802.3x /802.3af/802.3at/802.3az/ 802.1D-2004/802.1s/802.1w/ 802.1X/802.3ad | 802.3/8002.3u/802.3z/802 .3ab/802.3Q/802.3p/802.3x /802.3af/802.3at/802.3az/ 802.1D-2004/802.1s/802.1w/ 802.1X/802.3ad |
| Transmission length | 100 m | 100 m | 100 m | 100 m |
| Topology | Lines, star, mains, ring, meshes | Lines, star, mains, ring, meshes | Lines, star, mains, ring, meshes | Lines, star, mains, ring, meshes |
| Supported protocols | ProfiNet (CC A, CC B), Ethernet-IP, Modbus-TCP | ProfiNet (CC A, CC B), Ethernet-IP, Modbus-TCP | ProfiNet (CC A, CC B), Ethernet-IP, Modbus-TCP | ProfiNet (CC A, CC B), Ethernet-IP, Modbus-TCP |
| Packet Buffer Size | 12 Mbits | 12 Mbits | 12 Mbits | 12 Mbits |
| Data flow control | Back pressure and pause frame-based flow control schemes | Back pressure and pause frame-based flow control schemes | Back pressure and pause frame-based flow control schemes | Back pressure and pause frame-based flow control schemes |
| MAC address table | 16K | 16K | 16K | 16K |
| Priority levels | 8 | 8 | 8 | 8 |
| VLAN | VLAN ID 1-4094 | VLAN ID 1-4094 | VLAN ID 1-4094 | VLAN ID 1-4094 |
| Technical features | | | | |
| Operating voltage minmax. | 9 - 57 V DC | 9 - 57 V DC | 9 - 57 V DC | 9 - 57 V DC |
| Redundant power supply | 2 power inputs | 2 power inputs | 2 power inputs | 2 power inputs |
| Power consumption max. | 12.6 W | 12.6 W | 12.6 W | 12.6 W |
| Output with PoE ports max. | - | 120 W | - | 60 W |
| Relay output max. | 2x1A/24VDC | 2x 1 A / 24 V DC | 2x 1 A / 24 V DC | 2x 1 A / 24 V DC |
| Operating temperature minmax. | -20 °C+70 °C | -20 °C+70 °C | -20 °C+70 °C | -20 °C+70 °C |
| Storage temperature minmax. | -40 °C+85 °C | -40 °C+85 °C | -40 °C+85 °C | -40 °C+85 °C |
| Rel. humidity during operation minmax. (non-condensing) | 5 - 95 % | 5 - 95 % | 5 - 95 % | 5 - 95 % |
| Terminal type | Push-in terminal, pluggable | Push-in terminal, pluggable | Push-in terminal, pluggable | Push-in terminal, pluggable |
| Reset switch | Yes | Yes | Yes | Yes |
| DIP switch | Yes | Yes | Yes | Yes |
| Dimensions | | | | |
| Width (mm) | 54 | 54 | 54 | 54 |
| Height (mm) | 145 | 145 | 145 | 145 |
| Depth (mm) | 113 | 113 | 113 | 113 |
| Weight | approx. 800 g | approx. 800 g | approx. 800 g | approx. 800 g |

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MANAGED GIGABIT SWITCHES · **WIENET** L2MS-G **TECHNICAL DATA**









| Description | wienet L2MS 8G | wienet L2MS 8G-4SFP | wienet L2MS 8G-4PoE-4SFP | wienet L2MS 8G-8PoE |
|---|--|--|--|--|
| Art. No. | 83.040.0310.0 | 83.040.0312.0 | 83.040.0313.0 | 83.040.0314.0 |
| Technical data Ethernet | | | | |
| Number of ports | 8 | 8 | 8 | 8 |
| 10/100 RJ45 | 8 | 4 | 4 | 8 |
| SFP | - | 4 | 4 | - |
| PoE | - | - | 4 | 8 |
| Switch properties | | | | |
| Transmission type | Store and Forward | Store and Forward | Store and Forward | Store and Forward |
| Ethernet Standards IEEE | 802.3/8002.3u/802.3z/802 .3ab/802.3Q/802.3p/802.3x /802.3af/802.3at/802.3az/ 802.1D-2004/802.1s/802.1w/ 802.1X/802.3ad | 802.3/8002.3u/802.3z/802 .3ab/802.3Q/802.3p/802.3x /802.3af/802.3at/802.3az/ 802.1D-2004/802.1s/802.1w/ 802.1X/802.3ad | 802.3/8002.3u/802.3z/802 .3ab/802.3Q/802.3p/802.3x /802.3af/802.3at/802.3az/ 802.1D-2004/802.1s/802.1w/ 802.1X/802.3ad | 802.3/8002.3u/802.3z/802 .3ab/802.3Q/802.3p/802.3x /802.3af/802.3at/802.3az/ 802.1D-2004/802.1s/802.1w/ 802.1X/802.3ad |
| Transmission length | 100 m | 100 m | 100 m | 100 m |
| Topology | Lines, star, mains, ring, meshes |
| Supported protocols | ProfiNet (CC A, CC B), Ethernet-IP, Modbus-TCP |
| Packet Buffer Size | 12 Mbits | 12 Mbits | 12 Mbits | 12 Mbits |
| Data flow control | Back pressure and pause frame-based flow control schemes | Back pressure and pause frame-based flow control schemes | Back pressure and pause frame-based flow control schemes | Back pressure and pause frame-based flow control schemes |
| MAC address table | 16K | 16K | 16K | 16K |
| Priority levels | 8 | 8 | 8 | 8 |
| VLAN | VLAN ID 1-4094 | VLAN ID 1-4094 | VLAN ID 1-4094 | VLAN ID 1-4094 |
| Technical features | | | | |
| Operating voltage minmax. | 9 - 57 V DC |
| Redundant power supply | 2 power inputs | 2 power inputs | 2 power inputs | 2 power inputs |
| Power consumption max. | 12.6 W | 12.6 W | 12.6 W | 12.6 W |
| Output with PoE ports max. | - | - | 120 W | 240 W |
| Relay output max. | 2x1A/24VDC | 2x 1 A / 24 V DC | 2x 1 A / 24 V DC | 2x 1 A / 24 V DC |
| Operating temperature minmax. | -20 °C+70 °C | -20 °C+70 °C | -20 °C+70 °C | -20 °C+70 °C |
| Storage temperature minmax. | -40 °C+85 °C | -40 °C+85 °C | -40 °C+85 °C | -40 °C+85 °C |
| Rel. humidity during operation minmax. (non-condensing) | 5 - 95 % | 5 - 95 % | 5 - 95 % | 5 - 95 % |
| Terminal type | Push-in terminal, pluggable | Push-in terminal, pluggable | Push-in terminal, pluggable | Push-in terminal, pluggable |
| Reset switch | Yes | Yes | Yes | Yes |
| DIP switch | Yes | Yes | Yes | Yes |
| Dimensions | | | | |
| Width (mm) | 54 | 54 | 54 | 54 |
| Height (mm) | 145 | 145 | 145 | 145 |
| Depth (mm) | 113 | 113 | 113 | 113 |
| Weight | approx. 800 g | approx. 800 g | approx. 800 g | approx. 800 g |

| GENERAL TECHNICAL DATA FOR THE SERIES | | | |
|---------------------------------------|---|--|--|
| Mounting method | Top-hat rail | | |
| Protection class | IP30 | | |
| Housing material | Aluminum | | |
| Diagnosis display | LEDs | | |
| MTBF | 20 years | | |
| RoHs | Yes | | |
| Norms and approvals | FCC Part 15 Class A, CE, UL, cULus, CSA | | |

WIENET SWITCHES · SFP TRANSCEIVER · ACCESSORIES TECHNICAL DATA



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WIENET SWITCHES \cdot SFP TRANSCEIVER \cdot ACCESSORIES TECHNICAL DATA





| Description | wienet SFP G RJ45 | wienet SFP F/E (auto-neg) RJ45 |
|--------------------------|-------------------|--------------------------------|
| Art. No. | 83.040.0714.0 | 83.040.0715.0 |
| Technical data | | |
| Data rate | 1000 Mbps | 10/100/1000 Mbps |
| Max. data transfer rate | 1.25 Gbps | 1.25 Gbps |
| Auto-negotiation | No | Yes |
| Number of RJ45 ports | 1 | 1 |
| Media type | Copper | Copper |
| | | |
| | | |
| Standards | | |
| IEEE 802.3ab 1000BASE-T | 11 dbm | 19 dbm |
| Distance | 100m | 100m |
| | | |
| | | |
| Ambient conditions | | |
| Operating temperature | 0 °C+70 °C | 0 °C+70 °C |
| operating temperature | 0 070 0 | 0 010 |
| | | |
| | | |
| Certificates / Approvals | | |
| | CE/UL | CE / UL |

WIENET WLAN ACCESS POINT.

Today, WLAN networks are everywhere and this trend is also taking hold in industrial applications for which the new wienet AP-ETH-A Access Point was developed. Access Points from the wienet product range allow various devices to make a WLAN connection to the network via one Ethernet interface, or to connect various WLAN/LAN networks to each other.





- + When programmable or configurable control units are not impossible or difficult to access
- + When a software technician wants to have cable-free access to the machine
- + For portable applications such as automated transport systems in logistics applications
- + Generate a dedicated machine WLAN
- + Can be used as WLAN bridges
- + Link existing, wired end devices to a WLAN network (Client mode)



PERFORMANCE FEATURES

+ Network connection: LAN or WLAN+ Configuration: Web interface

+ Antenna: integrated or external via SMA connection

+ Power supply: 9 to 28 V DC

+ Ambient temperature: -5 °C up to +55 °C + Number of LAN ports: 1 or 3 via RJ45



WLAN ACCESS POINT **WIENET** AP-ETH-A.



SUITABLE AS:

+ Access point: LAN → WLAN

+ WLAN router: LAN & WLAN

 $WAN \rightarrow WLAN$

+ Network bridge: WLAN → LAN

WLAN → WLAN (& LAN) – repeater

+ LAN cable substitute: LAN → WLAN tunnel → LAN





REMOTE MONITORING AND CONTROL VIA WLAN

- Programming of barely accessible end devices
- Firmware updates



GANTRY CRANE + INDUSTRIAL CRANE

Simple programming and maintenance from the ground up.



AUTOMATED RACK SYSTEMS

Programming and monitoring from a safe distance.



AUTOMATED TRANSPORT VEHICLES

Programming and status request during operation.

WLAN ACCESS POINT · WIENET AP TECHNICAL DATA









| Description | wienet AP-FTH-A | wienet AP-FTH-A-A | wienet AP 3P FTH -A | wienet AP 3P ETH-A-A |
|---|-------------------|--------------------|---------------------|----------------------|
| Description | Wiellet AF-LIII-A | Wielietar-Lill-a-a | WIEHELAR SELIII-A | WIEHELAF SF LITI-A-A |
| Art. No. | 83.040.0050.0 | 83.040.0051.0 | 83.040.0052.0 | 83.040.0053.0 |
| | | | | |
| | | | | |
| Technical data | | | | |
| Technical data Nominal voltage minmax. | 9 to 28 V DC | 9 - 28 V DC | 9 - 28 V DC | 9 - 28 V DC |

WLAN

| *** | | | | |
|-----------------------|-------------------------|----------------------------|-------------------------|----------------------------|
| Wireless LAN standard | IEEE 802.11n/g/b | IEEE 802.11n/g/b | IEEE 802.11n/g/b | IEEE 802.11n/g/b |
| Frequency | 2.42.4835 GHz | 2.42.4835 GHz | 2.42.4835 GHz | 2.42.4835 GHz |
| Transmission power | <100 mW | <100 mW | <100 mW | <100 mW |
| Transfer rate | 150 Bd | 150 Bd | 150 Bd | 150 Bd |
| Data rate max. | 150 Mbit/s | 150 Mbit/s | 150 Mbit/s | 150 Mbit/s |
| Reliability | WEP, WPA, WPA2 PSK + EA | WEP, WPA, WPA2 PSK + EA | WEP, WPA, WPA2 PSK + EA | WEP, WPA, WPA2 PSK + EA |
| Antenna | Integrated | External via RP-SMA socket | Integrated | External via RP-SMA socket |

Ethernet (LAN)

| Number of RJ-45 sockets | 1 | 1 | 3 | 3 |
|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Medium | Twisted pair 10/100BaseT | Twisted pair 10/100BaseT | Twisted pair 10/100BaseT | Twisted pair 10/100BaseT |

Ambient conditions

| Operating temperature minmax. | -5 °C+55 °C | -5 °C+55 °C | -5 °C+55 °C | -5 °C +55 °C |
|---|---------------|---------------|---------------|---------------|
| Storage temperature minmax. | -20 °C+60 °C | -20 °C+60 °C | -20 °C+60 °C | -20 °C+60 °C |
| Rel. humidity during operation minmax. (non-condensing) | 5 - 93 % | 5 - 93 % | 5 - 93 % | 5 - 93 % |
| Condensation | Not permitted | Not permitted | Not permitted | Not permitted |

Dimensions

| Dilliciisions | | | | |
|---------------|--------------|--------------|---------------|---------------|
| Width (mm) | 22.5 | 22.5 | 22.5 | 22.5 |
| Height (mm) | 96.5 | 96.5 | 96.5 | 96.5 |
| Depth (mm) | 91.5 | 101.5 | 91.5 | 101.5 |
| Weight | approx. 95 g | approx. 97 g | Approx. 106 g | approx. 110 g |

| GENERAL TECHNICAL DATA FOR THE SERIES | | |
|---------------------------------------|--|--|
| Mounting method | DIN rail (top hat rail) 35 mm | |
| Protection class | IP20 | |
| Housing material | Plastic | |
| Connection type | Plug-in screw terminal | |
| Connection cross-section | $2 \times 0.14 - 0.75 \text{mm}^2 / 1 \times 0.14 - 2.5 \text{mm}^2$ | |
| Diagnosis display | LEDs (green/yellow) | |
| RESET button | < 3 s restart / 5-30 s restart with factory settings | |
| RoHs | Yes | |
| Norms and approvals | CE | |

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WLAN ACCESS POINT · WIENET AP ACCESSORIES





| Description | wienet Antenne 15854v2 WIFI | wienet Antenne 15874v2 WIFI |
|-----------------|-----------------------------|--|
| Art. No. | F0.000.0037.4 | F0.000.0037.5 |
| | | |
| Technical data | | |
| Frequency | 2.4 GHz | 2.4 GHz |
| Connection | SMA/M-RP | SMA/R |
| Cable length | 2.5 m | 5 m |
| Mounting method | Magnetic holder | Mast and wall mounting (incl. bracket) |
| | | |
| | | |
| Dimensions | | |
| | | |
| Width (mm) | 29 | 48 |
| Height (mm) | 223 | 82 |
| | | |

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We have developed special industry knowledge in a wide variety of specialized fields. This forms the basis of our successful solutions.



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Building installation



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Light technology



Firing technology



Conveying technology



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OUR SOLUTIONS RANGE.



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Plug-in electrical installations



Technology for building automation systems



System distribution boxes



Connectors/connection technology for energy distribution



Safety components



Process and communication technology



Control panel technology, DIN rail terminal blocks



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https://www.wieland-electric.com/en/download

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Art. No. 0810.1





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