



**wienet** SWITCHES

# **SECURELY** NETWORKED

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

# HELLO WIELAND ELECTRIC

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**Tradition and innovation - Wieland is representing the synergy of these two guiding principles for more than 100 years.**

At Wieland Electric, we are proud to be the world market leader in electrical connections, and have been focusing on safe and innovative technologies since our founding. The beginnings of our success lie in the legendary Wieland Clamp, the first-ever safe electrical connector. Since then, innovation has pushed us to develop safer and more efficient ways to electrify the world.

Expanding from a component-only manufacturer, we are now one of the leading suppliers of innovative, future-oriented, and complete electrical solutions. We divide our focus into two main areas, Building and Industry. Our Building Solutions focus on decentralized power distribution and pluggable connections in all kinds of architectures and infrastructures. From in-store displays and lighting to hospitals and airports, and any structure in between – you build it, we power it! Our Industry Solutions center around functional safety for machines, industrial networking (IIoT and VPN), and power distribution. At Wieland, we keep your productivity going in mechanical engineering, wind power, material handling, thermo-processing, HVAC, and many other industries.

We are at our customers' side in every step of the project, right from the start. Our experts offer consulting, on-site services, and technical support. We see ourselves as service providers, trainers and subject-matter experts.

  
**1910**  
Founded in  
Bamberg

  
**1600+**  
Employees  
worldwide

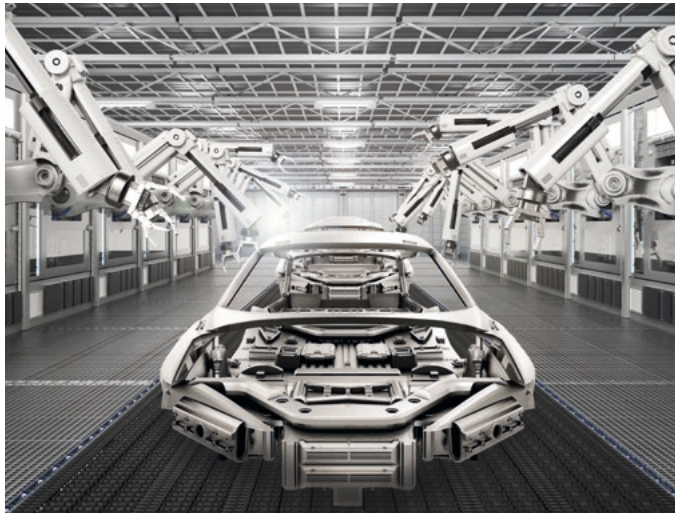
  
**6**  
Production  
sites

  
**70+**  
Countries  
worldwide

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# INDUSTRIAL NETWORK TECHNOLOGY FOR DIVERSE APPLICATIONS.

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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

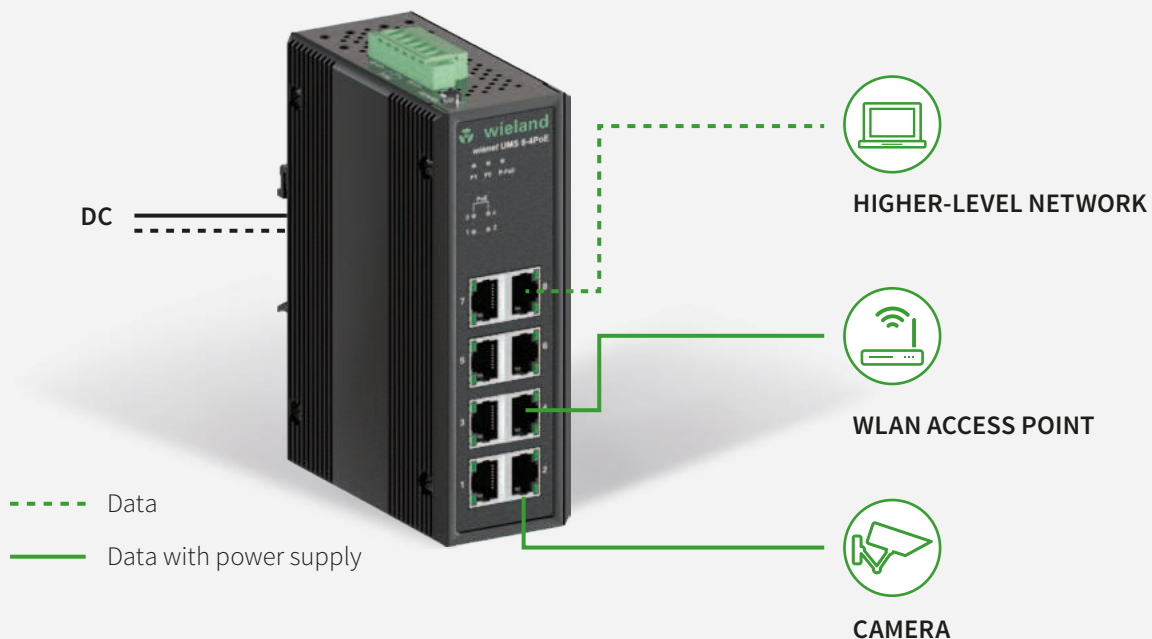
Power over Ethernet (PoE) technology makes it easier to set up networks. The same Ethernet cabling is used for both the power supply and data transmission. This technology enables the simplest possible installation or expansion of new or existing networks.

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 shut-down 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.



## REMOTE MONITORING AND CONTROL

- Firmware updates



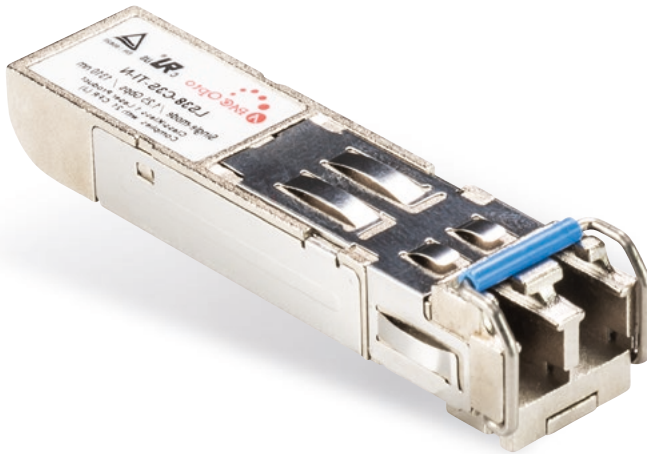
## SIMPLE AND SECURE INTEGRATION OF MACHINES AND SYSTEMS INTO THE NETWORK

### 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).

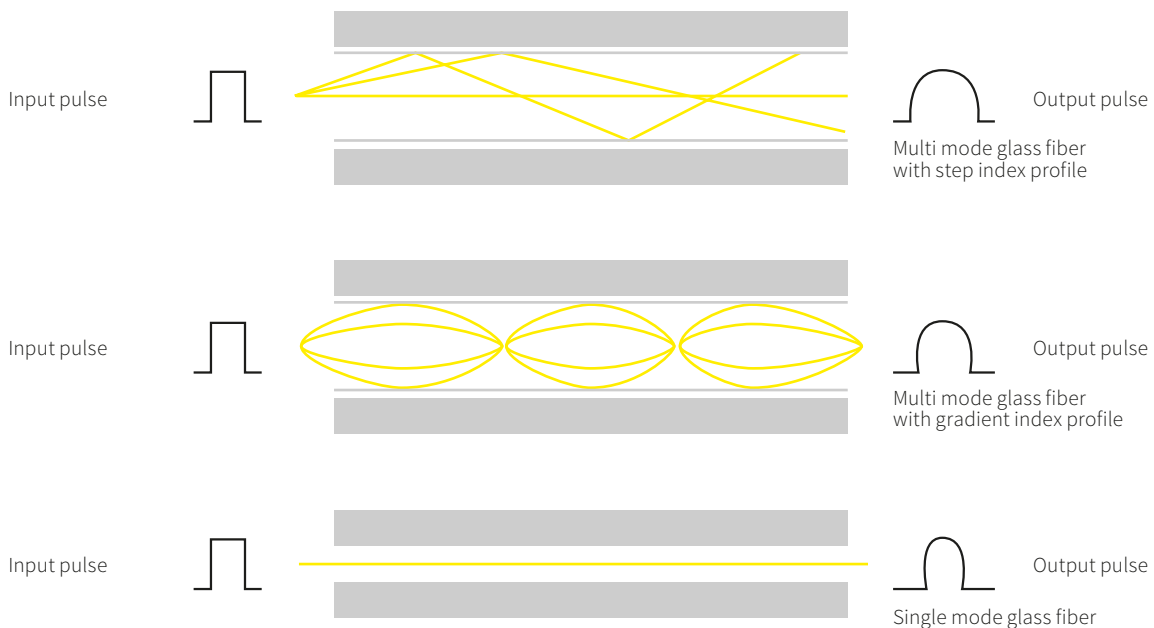


### THE BENEFITS TO YOU:

- + 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

### 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





# 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:

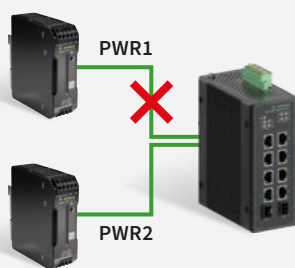
- Use in the expanded temperature range
- Reliable, redundant power supply for interruption-free communication
- High resistance to electromagnetic disruptions
- Immunity to vibrations and impacts
- Compliance with various certification standards



### 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.

12 - 48 V DC  
power supply

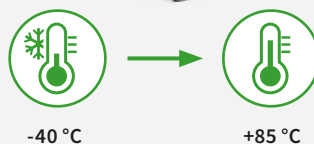


Backup  
Power supply



### 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.



EtherNet/IP™



# 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.



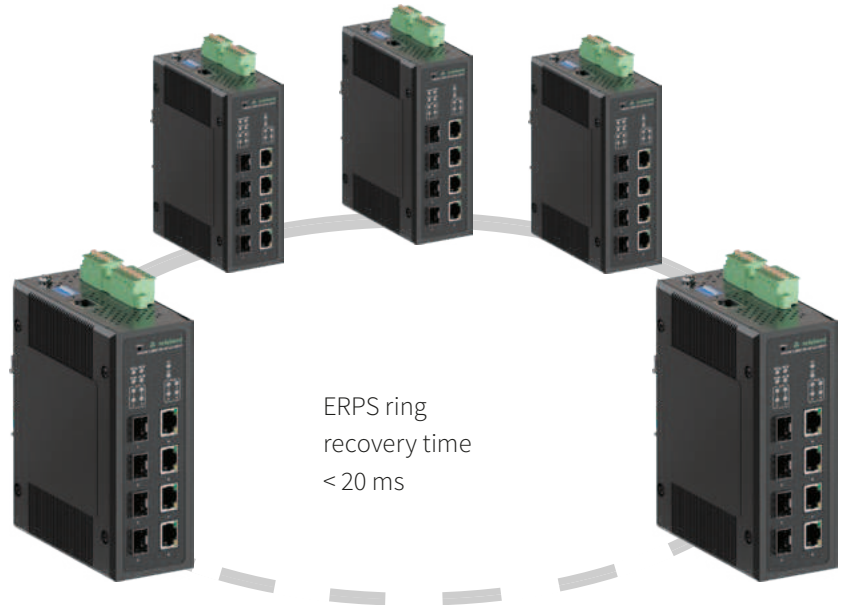
- + More data flow control in the network
- + Data flow optimization through segmentation via VLANs
- + Ethernet packet prioritization for data with real-time requirement
- + PoE+ support, i.e. full 30 W on every PoE port
- + Suitable for Profinet up to CC-B and Ethernet IP
- + EMC Level 3 for highest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

# MAXIMUM AVAILABILITY + FAIL SAFE

## RING REDUNDANCY

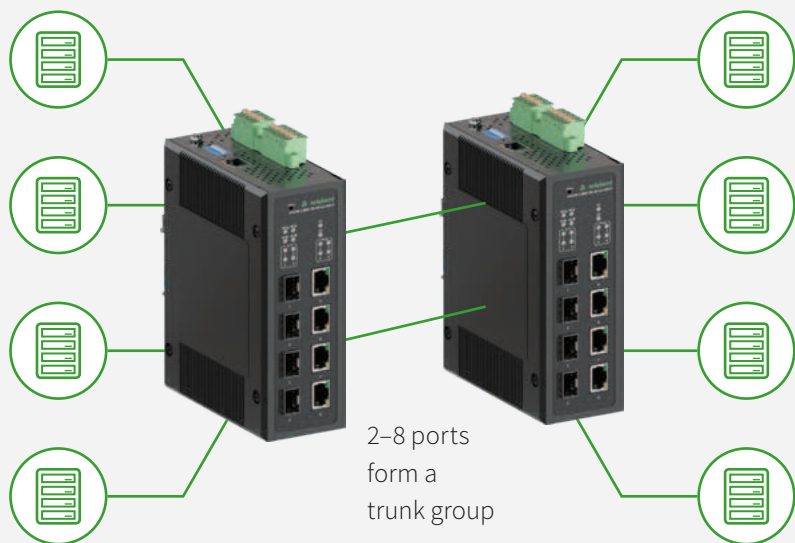
Enables the network to recover autonomously in the event of a connection failure. This ensures maximum availability in industrial network applications. There are various protocols with advantages and disadvantages.

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.



## THE BENEFITS TO YOU:

- + 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

COMPLEXITY	UNMANAGED	MANAGED	MODEL	OPTIONAL
				<b>WIENET UMS SERIES UNMANAGED SWITCHES</b>
		<b>WIENET UMS-G SERIES UNMANAGED SWITCHES GIGABIT</b>	<b>POE PORTS</b>	
		<b>WIENET UMS-A SERIES UNMANAGED SWITCHES ADVANCED</b>	<b>POE &amp; SFP PORTS</b>	
		<b>WIENET FS SERIES FIELDBUS SWITCHES</b>		
		<b>WIENET L2MS SERIES LAYER 2 MANAGED SWITCHES</b>	<b>POE &amp; SFP PORTS</b>	
		<b>WIENET L2MS-G SERIES LAYER 2 MANAGED SWITCHES GIGABIT</b>	<b>POE &amp; SFP PORTS</b>	

## 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 ETHERNET SWITCHES 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

## GIGABIT SWITCHES 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 GIGABIT SWITCHES 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	-

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

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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

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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

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# 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 ETHERNET SWITCHES 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	83.040.0223.0	16

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

## GIGABIT SWITCHES 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

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

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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

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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

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# WIENET ACCESSORIES

## SFP TRANSCEIVER



Model	Art. No.
wienet SFP F MM LED	83.040.0700.0
wienet SFP F SM FP	83.040.0701.0
wienet SFP G MM VCSEL	83.040.0710.0
wienet SFP G MM FP	83.040.0711.0
wienet SFP G SM FP	83.040.0712.0
wienet SFP G SM DFB	83.040.0713.0
wienet SFP G RJ45	83.040.0714.0
wienet SFP F/E (auto-neg) RJ45	83.040.0715.0

# WIENET WLAN ACCESS POINT

## WLAN ACCESS POINT



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

## WLAN ACCESS POINT ACCESSORIES



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

# ACCESSORIES



Model	Art. No.
wienet PATCH-CABLES MOD ZBH RJ45	78.999.4x00.0



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

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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

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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

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Description
Patch-cables RJ45, different lengths (x = m see chart)

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# 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

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- |                     |                                  |
|---------------------|----------------------------------|
| + 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
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

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	Full Duplex / Half Duplex	Full Duplex / Half Duplex	Full Duplex / Half Duplex
Ethernet Standards IEEE	802.3/802.3u/802.3x	802.3/802.3u/802.3x	802.3/802.3u/802.3x	802.3/802.3u/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 min.-max.	12 - 48 VDC	9 - 30 VDC	9 - 30 VDC	9 - 30 VDC
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 min.-max.	-40 °C...+75 °C	0 °C...+60 °C	-10 °C...+70 °C	-10 °C...+70 °C
Storage temperature min.-max.	-40 °C...+85 °C	-20 °C...+70 °C	-40 °C...+85 °C	-40 °C...+85 °C
Rel. humidity during operation min.-max. (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
Height (mm)	120	90	90	90
Depth (mm)	95	80	80	80
Weight	approx. 255 g	approx. 160 g	approx. 260 g	Approx. 270 g

# 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

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	Full Duplex / Half Duplex	Full Duplex / Half Duplex	Full Duplex / Half Duplex
Ethernet Standards IEEE	802.3/802.3u/802.3x	802.3/802.3u/802.3x	802.3/802.3u/802.3x	802.3/802.3u/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

Operating voltage min.-max.	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 min.-max.	-10 °C...+70 °C	-10 °C...+70 °C	-40 °C...+75 °C	-40 °C...+75 °C
Storage temperature min.-max.	-40 °C...+85 °C	-40 °C...+85 °C	-40 °C...+85 °C	-40 °C...+85 °C
Rel. humidity during operation min.-max. (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	802.3/802.3u/802.3x/802.3ab/ 802.3z/802.1Q/802.1p/802.3az	802.3/802.3u/802.3x/802.3ab/ 802.3z/802.1Q/802.1p/802.3az	802.3/802.3u/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 min.-max.	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 min.-max.	-40 °C...+70 °C	-40 °C...+70 °C	-10 °C...+70 °C
Storage temperature min.-max.	-40 °C...+85 °C	-40 °C...+85 °C	-40 °C...+85 °C
Rel. humidity during operation min.-max. (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

### GENERAL TECHNICAL DATA FOR 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





# 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	-	-	-
PoE	-	4	8

### 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	802.3/802.3u/802.3x/802.3ab/ 802.3af/802.1Q/802.1p/802.3az	802.3/802.3u/802.3x/802.3ab/ 802.3af/802.1Q/802.1p/802.3az	802.3/802.3u/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 min.-max.	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 min.-max.	-40 °C...+75 °C	-40 °C...+75 °C	-40 °C...+75 °C
Storage temperature min.-max.	-40 °C...+85 °C	-20 °C...+70 °C	-40 °C...+85 °C
Rel. humidity during operation min.-max. (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

# 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
PoE	-	4	8

### 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	802.3/802.3u/802.3x/802.3ab/ 802.3af/802.1Q/802.1p/802.3az	802.3/802.3u/802.3x/802.3ab/ 802.3af/802.1Q/802.1p/802.3az	802.3/802.3u/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 min.-max.	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 min.-max.	-40 °C...+75 °C	-40 °C...+75 °C	-40 °C...+75 °C
Storage temperature min.-max.	-40 °C...+85 °C	-40 °C...+85 °C	-40 °C...+85 °C
Rel. humidity during operation min.-max. (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

# 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  
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
10/100 RJ45	8	16	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	802.3/802.3u/802.3x/802.1D/ 802.1w/802.1p/802.1Q/ 802.3ad/802.3az	802.3/802.3u/802.3x/802.1D/ 802.1w/802.1p/802.1Q/ 802.3ad/802.3az	802.3/802.3u/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

### Technical features

Operating voltage min.-max.	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 min.-max.	-40 °C...+75 °C	-40 °C...+75 °C	-40 °C...+75 °C
Storage temperature min.-max.	-40 °C...+85 °C	-40 °C...+85 °C	-40 °C...+85 °C
Rel. humidity during operation min.-max. (non-condensing)	10 - 95 %	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
Weight	approx. 550 g	approx. 670 g	approx. 550 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

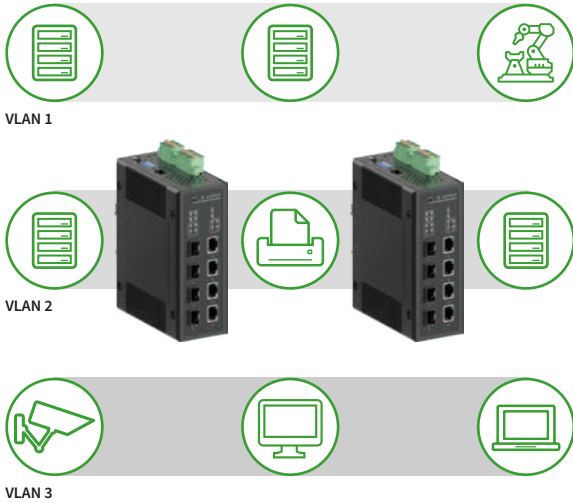
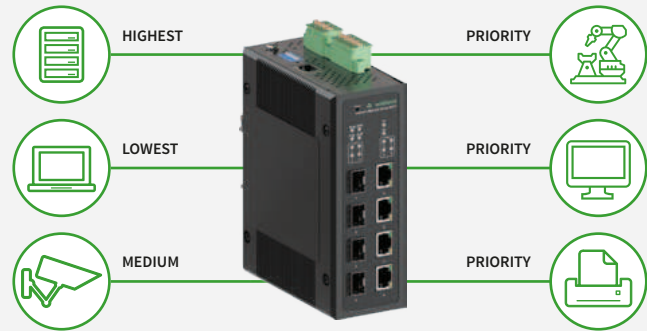




# WIENET LAYER 2 MANAGED SWITCHES

## 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.

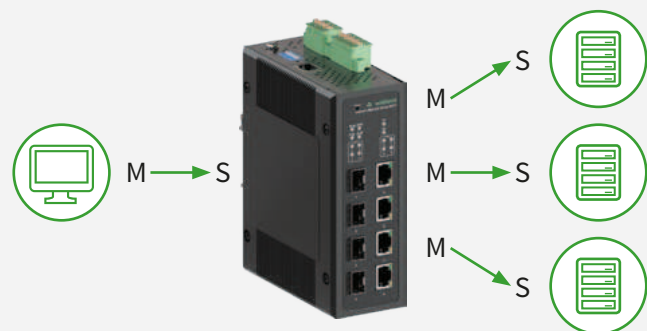


## VLAN

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 PTP 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.



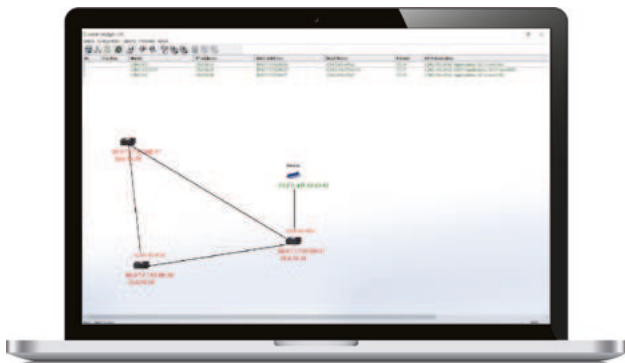
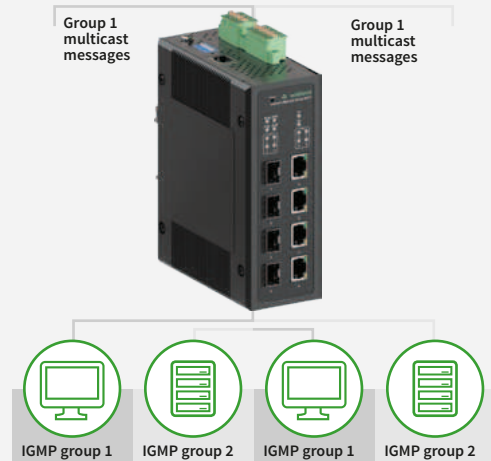
**Grand Master Clock:**  
Sets the reference time for the network

**Boundary Clock:**  
Slave to the grand master and master to its slaves

**Ordinary Clock:**  
Obtains the time as a slave from the boundary clock master

## 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.



## TOPOLOGY RECOGNITION WITH LLDP

The LLDP 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

- + Switch method: Store and forward switching mode
- + Prioritization: Ethernet packet prioritization for data with real-time requirement
- + Configuration: Web interface
- + Diagnosis: LEDs, web interface, SNMP, bus protocol, 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



# 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

### 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
Autosensing	Yes	Yes	Yes	Yes
Communication	Full Duplex / Half Duplex	Full Duplex / Half Duplex	Full Duplex / Half Duplex	Full Duplex / Half Duplex
Ethernet Standards IEEE	802.3/802.3u/802.3z/ 802.3Q/802.3p/802.3x/ 802.3af/802.3at/802.3az/ 802.1D/802.1w/802.1X/ 802.3ad	802.3/802.3u/802.3z/ 802.3Q/802.3p/802.3x/ 802.3af/802.3at/802.3az/ 802.1D/802.1w/802.1X/ 802.3ad	802.3/802.3u/802.3z/ 802.3Q/802.3p/802.3x/ 802.3af/802.3at/802.3az/ 802.1D/802.1w/802.1X/ 802.3ad	802.3/802.3u/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	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 min.-max.	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.	2x 2 A / 30 V DC	2x 2 A / 30 V DC	2x 2 A / 30 V DC	2x 2 A / 30 V DC
Operating temperature min.-max.	-20 °C...+70 °C	-20 °C...+70 °C	-20 °C...+70 °C	-20 °C...+70 °C
Storage temperature min.-max.	-40 °C...+85 °C	-40 °C...+85 °C	-40 °C...+85 °C	-40 °C...+85 °C
Rel. humidity during operation min.-max. (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	60.3
Height (mm)	137.9	137.9	137.9	137.9
Depth (mm)	164	164	164	164
Weight	approx. 1200 g	approx. 1200 g	approx. 1200 g	approx. 1200 g

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



# 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

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
Autosensing	Yes	Yes	Yes	Yes
Communication	Full Duplex / Half Duplex	Full Duplex / Half Duplex	Full Duplex / Half Duplex	Full Duplex / Half Duplex
Ethernet Standards IEEE	802.3/802.3u/802.3z/ 802.3Q/802.3p/802.3x/ 802.3af/802.3at/802.3az/ 802.1D/802.1w/802.1X/ 802.3ad	802.3/802.3u/802.3z/ 802.3Q/802.3p/802.3x/ 802.3af/802.3at/802.3az/ 802.1D/802.1w/802.1X/ 802.3ad	802.3/802.3u/802.3z/ 802.3Q/802.3p/802.3x/ 802.3af/802.3at/802.3az/ 802.1D/802.1w/802.1X/ 802.3ad	802.3/802.3u/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	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 min.-max.	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.	2x 2 A / 30 V DC	2x 2 A / 30 V DC	2x 2 A / 30 V DC	2x 2 A / 30 V DC
Operating temperature min.-max.	-20 °C...+70 °C	-20 °C...+70 °C	-20 °C...+70 °C	-20 °C...+70 °C
Storage temperature min.-max.	-40 °C...+85 °C	-40 °C...+85 °C	-40 °C...+85 °C	-40 °C...+85 °C
Rel. humidity during operation min.-max. (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
Height (mm)	137.9	137.9	137.9	137.9
Depth (mm)	164	164	164	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
- + Diagnosis: LEDs, web interface, SNMP, bus protocol, 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





# 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	802.3/802.3u/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	802.3/802.3u/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	802.3/802.3u/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	802.3/802.3u/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 min.-max.	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.	2x 1 A / 24 V DC	2x 1 A / 24 V DC	2x 1 A / 24 V DC	2x 1 A / 24 V DC
Operating temperature min.-max.	-20 °C...+70 °C	-20 °C...+70 °C	-20 °C...+70 °C	-20 °C...+70 °C
Storage temperature min.-max.	-40 °C...+85 °C	-40 °C...+85 °C	-40 °C...+85 °C	-40 °C...+85 °C
Rel. humidity during operation min.-max. (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

# 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
<b>Art. No.</b>	83.040.0310.0	83.040.0312.0	83.040.0313.0	83.040.0314.0
<b>Technical data Ethernet</b>				
Number of ports	8	8	8	8
10/100 RJ45	8	4	4	8
SFP	-	4	4	-
PoE	-	-	4	8
<b>Switch properties</b>				
Transmission type	Store and Forward	Store and Forward	Store and Forward	Store and Forward
Ethernet Standards IEEE	802.3/802.3u/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	802.3/802.3u/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	802.3/802.3u/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	802.3/802.3u/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
<b>Technical features</b>				
Operating voltage min.-max.	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	240 W
Relay output max.	2x 1 A / 24 V DC	2x 1 A / 24 V DC	2x 1 A / 24 V DC	2x 1 A / 24 V DC
Operating temperature min.-max.	-20 °C...+70 °C	-20 °C...+70 °C	-20 °C...+70 °C	-20 °C...+70 °C
Storage temperature min.-max.	-40 °C...+85 °C	-40 °C...+85 °C	-40 °C...+85 °C	-40 °C...+85 °C
Rel. humidity during operation min.-max. (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
<b>Dimensions</b>				
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



Description	wienet	SFP F MM LED	SFP F SM FP	SFP G MM VCSEL	SFP G MM FP	SFP G SM FP	SFP G SM DFB
Art. No.		83.040.0700.0	83.040.0701.0	83.040.0710.0	83.040.0711.0	83.040.0712.0	83.040.0713.0

### Technical data Ethernet

Data rate	155 Mbps	155 Mbps	1250 Mbps	1250 Mbps	1250 Mbps	1250 Mbps
Wavelength	1310 nm	1310 nm	850 nm	1310 nm	1310 nm	1310 nm
Light source	LED	FP	VCSEL	FP	FP	DFB
Media type	Glass fiber multi mode	Glass fiber single mode	Glass fiber multi mode	Glass fiber multi mode	Glass fiber single mode	Glass fiber single mode
Tx power	-20...-14 dbm with 62.5/125µm fiber	-15...-8 dbm with 9/125µm fiber	-9,5...-4 dbm with 50/125µm or 62.5/125µm fiber	-9,5...-1 dbm with 50/125µm or 62.5/125µm fiber	-9,5...-3 dbm with 9/125µm fiber	-4...+1 dbm with 9/125µm fiber
Rx sensitivity	-31 dbm	-34 dbm	-18 dbm	-19 dbm	-20 dbm	-24 dbm
Link budget	11 dbm	19 dbm	8.5 dbm	10 dbm	10.5 dbm	20 dbm
Saturation	-8 dbm	0 dbm	0 dbm	-1 dbm	-3 dbm	-3 dbm
Distance	2 km	30 km	550 m	2 km	10 km	30 km

### Ambient conditions

Operating temperature	-40 °C...+85 °C	-40 °C...+85 °C	-40 °C...+85 °C	-40 °C...+85 °C	-40 °C...+85 °C	-40 °C...+85 °C
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### Certificates / Approvals

	CE / UL	CE / UL	CE / UL	CE / UL	CE / UL	CE / UL
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# WIENET SWITCHES · SFP TRANSCEIVER · ACCESSORIES

## TECHNICAL DATA



<b>Description</b>	<b>wienet SFP F/E (auto-neg) RJ45</b>
<b>Art. No.</b>	83.040.0715.0

<b>Technical data</b>	
Data rate	10/100/1000 Mbps
Max. data transfer rate	1.25 Gbps
Auto-negotiation	Yes
Number of RJ45 ports	1
Media type	Copper

<b>Standards</b>	
IEEE 802.3ab 1000BASE-T	19 dbm
Distance	100m

<b>Ambient conditions</b>	
Operating temperature	0 °C...+70 °C

<b>Certificates / Approvals</b>	
	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



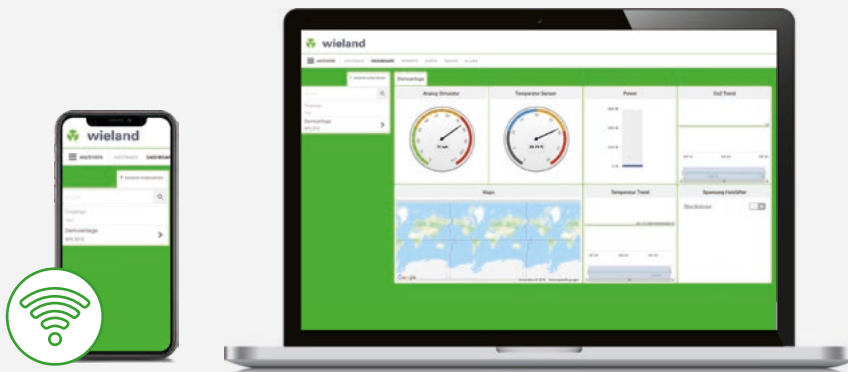
# WLAN ACCESS POINT WIENET AP-ETH-A

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## SUITABLE AS:

- + Access point: LAN → WLAN
- + WLAN router: LAN & WLAN  
WAN → 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.

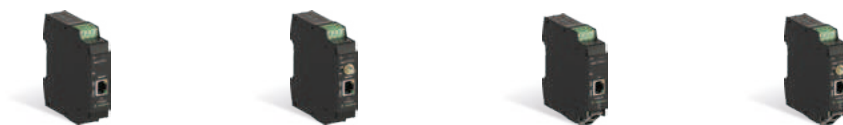


### AUTOMATED TRANSPORT VEHICLES

Programming and status request during operation.



# WLAN ACCESS POINT · WIENET AP · TECHNICAL DATA



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

Technical data				
Nominal voltage min.-max.	9 to 28 V DC	9 - 28 V DC	9 - 28 V DC	9 - 28 V DC
Output (24 V DC)	ca. 1 W	ca. 1 W	ca. 1 W	ca. 1 W

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	2.4...2.4835 GHz	2.4...2.4835 GHz	2.4...2.4835 GHz	2.4...2.4835 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 min.-max.	-5 °C...+55 °C	-5 °C...+55 °C	-5 °C...+55 °C	-5 °C...+55 °C
Storage temperature min.-max.	-20 °C...+60 °C	-20 °C...+60 °C	-20 °C...+60 °C	-20 °C...+60 °C
Rel. humidity during operation min.-max. (non-condensing)	5 - 93 %	5 - 93 %	5 - 93 %	5 - 93 %
Condensation	Not permitted	Not permitted	Not permitted	Not permitted

Dimensions				
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 x 0.14 - 0.75 mm <sup>2</sup> / 1 x 0.14 - 2.5 mm <sup>2</sup>
Diagnosis display	LEDs (green/yellow)
RESET button	< 3 s restart / 5-30 s restart with factory settings
RoHs	Yes
Norms and approvals	CE

# WLAN ACCESS POINT · WIENET AP · ACCESSORIES



<b>Description</b>	<b>wienet</b> Antenne 15854v2 WIFI	<b>wienet</b> Antenne 15874v2 WIFI
<b>Art. No.</b>	F0.000.0037.4	F0.000.0037.5

<b>Technical data</b>		
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)

<b>Dimensions</b>		
Width (mm)	29	48
Height (mm)	223	82
Depth (mm)	29	48

## ACCESSORIES

### Patch-cables RJ45



Type	Art. No.	PU
<b>wienet</b> Patch-cables MOD ZBH RJ45 0,25 m	78.999.4000.0	1
<b>wienet</b> Patch-cables MOD ZBH RJ45 0,5 m	78.999.4100.0	1
<b>wienet</b> Patch-cables MOD ZBH RJ45 1,0 m	78.999.4200.0	1
<b>wienet</b> Patch-cables MOD ZBH RJ45 2,0 m	78.999.4300.0	1
<b>wienet</b> Patch-cables MOD ZBH RJ45 3,0 m	78.999.4400.0	1
<b>wienet</b> Patch-cables MOD ZBH RJ45 5,0 m	78.999.4500.0	1
<b>wienet</b> Patch-cables MOD ZBH RJ45 7,5 m	78.999.4600.0	1
<b>wienet</b> Patch-cables MOD ZBH RJ45 10 m	78.999.4700.0	1

# OUR **SECTOR KNOWLEDGE.**

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



Machine and system construction



Building installation



Heating, ventilation and air conditioning systems



Light technology



Combustion technology



Conveying technology



Wind energy and Photovoltaic



Lifts and escalators

# OUR **SOLUTIONS RANGE.**



Energy distribution in floors and ceilings



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



# INFO TO GO

All brochures from Wieland Electric are available for download on our website.



<https://www.wieland-electric.com/en/support/downloads>

Interesting for you

## WIENET INDUSTRIAL AUTOMATION

Solutions for industrial communication  
Part No. 0810.1

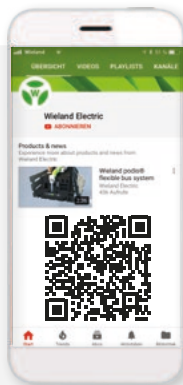


## WIPOS CATALOG

Power supplies for plant and machinery  
Part No. 0821.1



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# wieland

## HEADQUARTERS

Wieland Electric GmbH  
Brennerstraße 10 – 14  
96052 Bamberg · Germany

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Phone +49 951 9324-0  
Fax +49 951 9324-198  
info@wieland-electric.com

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Represented in over 70 countries worldwide:

**www.wieland-electric.com**