

Product type designation

IE/WSN-PA LINK

IE/WSN-PA LINK for external antenna port; Gateway between WirelessHART and Ethernet; Ethernet 10/100 Mbit/s; TCP/IP, Modbus TCP; Wireless HART at 2.4 GHz; national approval Europe; EX-perm. Zone 2; RS 485 with Modbus RTU



Transfer rate

Transfer rate

- | | |
|------------------------|---------------------|
| • at the 1st interface | 10 ... 100 Mbit/s |
| • at the 2nd interface | 10 ... 100 Mbit/s |
| • at interface 3 | 9.6 ... 57.6 kbit/s |

Interfaces

Number of electrical connections

- | | |
|--|---|
| • at the 1st interface / acc. to Industrial Ethernet | 1 |
| • at the 2nd interface / acc. to Industrial Ethernet | 1 |
| • at interface 3 / acc. to RS 485 | 1 |
| • for power supply | 1 |

Type of electrical connection

- | | |
|--|-----------------------|
| • at the 1st interface / acc. to Industrial Ethernet | RJ45 port |
| • at the 2nd interface / acc. to Industrial Ethernet | RJ45 port |
| • at interface 3 / acc. to RS 485 | 2-pole terminal strip |
| • for power supply | 3-pole terminal strip |

Interfaces / wireless

Number of radio cards / permanently installed	1
Number of internal antennas	0
Number of electrical connections / for external antenna(s)	1
Type of electrical connection / for external antenna(s)	N-Connector

Supply voltage, current consumption, power loss

Type of voltage supply	DC
Supply voltage / external	24 V
Supply voltage / external	20 ... 28 V
Type of voltage / of the supply voltage	DC
Consumed current / from external supply voltage / at DC / at 24 V / maximum	0.5 A
Power loss [W] / maximum	12 W

Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> during operation during storage during transport 	-40 ... +70 °C -40 ... +85 °C -40 ... +85 °C
Relative humidity / at 25 °C / without condensation / during operation / maximum	90 %
Protection class IP	IP65

Design, dimensions and weights

Width / of the enclosure	229 mm
Height / of the enclosure	
<ul style="list-style-type: none"> without antenna with antenna 	306 mm 354 mm
Depth / of the enclosure	89 mm
Net weight	4.54 kg
Mounting type	Material for mast mounting included in scope of delivery
<ul style="list-style-type: none"> wall mounting mast mounting 	Yes Yes

Radio frequencies

Operating frequency / for WirelessHART in 2.4 GHz frequency band	2.4 ... 2.5 GHz
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Performance data / WirelessHART

Number of WirelessHART devices / usable	100
Network latency	
<ul style="list-style-type: none"> at 100 field devices / for WirelessHART network / maximum for 50 field devices / for WirelessHART network / maximum 	10 s 5 s

Transmission link / between two devices / for WirelessHART network / maximum	100 m
• Note	Values may vary in the case of radio obstacles
Protocol / is supported / HART protocol	Yes

Product features, product functions, product components / general

Protocol / is supported	
• Address Resolution Protocol (ARP)	Yes
• HTTP	Yes
• HTTPS	Yes
• Modbus TCP	Yes
• Modbus TCP secure	Yes
• Modbus RTU	Yes

Product functions / management, configuration, engineering

Product function	
• web-based management	Yes
• DHCP client	Yes

Product functions / Diagnostics

Product function	
• Web-based diagnostics	Yes
• WirelessHART diagnostics via Modbus	Yes

Product functions / redundancy

Product function / Device redundancy	Yes
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Product functions / Security

Product function	
• Password protection - multi-level	Yes
• WirelessHART Join Key	Yes
• ACL - MAC-based	Yes
• WirelessHART Network ID	Yes
Protocol / is supported / SSL	Yes
Principle of encryption	AES 128 bit

Product functions / time

Protocol / is supported / NTP	Yes
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Standards, specifications, approvals

Standard / for WirelessHART	HART V 7.1
Standard for wireless communication / IEEE 802.15.4	Yes
Certificate of suitability	
• CE marking	Yes

- relating to CSA

CSA Division 2 & Dust Ignition-proof for Class I, Division 2, Groups A, B, C, and D. Dust Ignition-proof for Class II, Groups E, F, and G / Suitable for Class III Hazardous Locations. / Install per Siemens drawing A5E02467236A. Temperature Code: T4 (-40°C < Ta < 60°C) CSA Enclosure Type 4X

- relating to FM

FM Division 2, Non-Incendive for Class I, Division 2, Groups A, B, C, and D. Dust Ignition-proof for Class II, III, Division 1, Groups E, F, and G / Indoor and outdoor locations / NEMA Type 4X
Temperature Code: T4 (-40°C < Ta < 60°C)

- relating to ATEX

ATEX type n, see note: Certificate number: Baseefa10ATEX0044X, ATEX marking: Ex II 3 G, Ex nA nL IIC T4 (-40 °C <= Ta <= 60 °C), rated voltage: 28 V, ATEX dust ignition-proof: Certificate number: Baseefa10ATEX0045X, ATEX marking: II 3 D, Ex tD A22 IP66 T135 (-40 °C <= Ta <= 60 °C), rated voltage: 28 V. Note on type n: Conditions for safe handling during installation. The device does not pass the 500 V insulation test in accordance with paragraph 6.8.1 of EN 60079-15:2005. This must be taken into account when the device is mounted.

- relating to IECEx

IECEx Type n, see note: Certificate number: IECEx BAS 10.0014X, Ex nA nL IIC T4 (-40 °C <= Ta <= 60 °C), rated voltage: 28 V, ATEX dust ignition-proof, see note: Certificate number: IECEx BAS 10.0015X, Ex tD A22 IP66 T135 (-40 °C <= Ta <= 60 °C), rated voltage: 28 V. Note on type n: Conditions for safe handling during installation. The device does not pass the 500 V insulation test in accordance with paragraph 6.8.1 of EN 60079-15:2005. This must be taken into account when the device is mounted.

Wireless approval

IC approval

Further information / Internet-Links

Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/snst>

<http://www.siemens.com/simatic-net>

<https://mall.industry.siemens.com>

<http://www.siemens.com/industry/infocenter>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

Security information

Security information

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