

Product datasheet

Specifications



Acti9 Smartlink SI B - Modbus TCP/IP and Wireless communication module



A9XMZA08

⚠ Discontinued on: 30-Sept-2023

⚠ To be discontinued

⚠ To be end-of-service on: 30-Jun-2025

Main

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|---------------------------------|--|
| Range Of Product | Acti9 |
| Product Name | Acti9 Smartlink |
| Product Or Component Type | Smart communication module |
| Device Short Name | Smartlink SI B Ethernet |
| Application Type | Basic energy metering E Improved load monitoring E, U, I, P, Pf Load alarming Load control Breaker status monitoring |
| Number Max Of Connected Devices | Up to 7 wired devices Up to 20 wireless devices |
| Group Of Channels | 1 group of 7 digital channels 1 group of 1 analog channel |
| Maximum Supply Current | 1.5 A |
| [Us] Rated Supply Voltage | 24 V DC +/- 20 % |
| Connectivity To Devices | Analog input Digital input and output Pulse output meter Wireless energy sensor |
| Communication Service | Ethernet Modbus TCP/IP server Web server |
| Web Server | BMS controller compatible Embedded web page |
| Transmission Support Medium | Radio frequency 2.4...2.4835 GHz PowerTag 20 |
| Web Services | Web page |

Complementary

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|--------------------------|---|
| Application Specific I/O | Pulse converter Pulse totalising counter |
| Protection Type | Short-circuit protection for analog input Against reverse polarity for auxiliary supply Against reverse polarity for input Overvoltage at 33 V DC for digital output |
| Immunity To Microbreaks | 10 ms |
| Reset | Factory reset on front face |
| Input/Output Type | 2 inputs per analog channel 2 inputs + 1 output per digital channel |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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|------------------------------|--|
| Input Type | Current for analog input, 4...20 mA Voltage for analog input, 0...10 V DC Current sink for digital input, 24 V DC +/- 20 % at 2.5 mA |
| Maximum Permanent Current | 0.005 A for digital input |
| Absolute Accuracy Error | +/- 1 % of full scale for analog input 12 bits |
| Electronic Filtering Time | 2 ms for digital input from state 0 to state 1 2 ms for analog input from state 0 to state 1 |
| Output Type | Logic current source: 24 V - DC - 100 mA |
| Maximum Voltage Drop | <1 V at state 1 digital output |
| Inrush Current | 0.5 A for digital output 3 A for power supply |
| Local Signalling | Communication: 1 LED (yellow) NS (Network Status): 1 LED (green, orange and red) Communication (LK/ACT 10/100): 1 LED (green and yellow) Status: 1 LED (green, orange and red) |
| Mounting Position | Horizontal and vertical on DIN rail |
| Colour | White (RAL 9003) |
| Location Of Connection | Front |
| Connections - Terminals | Spring-loaded terminal Ti24 qty: 7 for digital input/output, ordered separately RJ45 connector qty: 1 for ETHERNET, ordered separately Plug-in connector qty: 1 for supply circuit Plug-in connector qty: 1 for communication bus Plug-in connector qty: 1 for analog input |
| Clamping Connection Capacity | 2 x 0.25 mm² for twisted shielded pairs cable, flexible with cable end for communication bus 2 x 0.25 mm² for twisted shielded pairs cable, flexible without cable end for communication bus 2 x 0.25 mm² for twisted shielded pairs cable, rigid with cable end for communication bus 2 x 0.25 mm² for twisted shielded pairs cable, rigid without cable end for communication bus 2 x 0.25...2 x 1.5 mm² for twisted shielded pairs cable, rigid with cable end for analog input 2 x 0.25...2 x 1.5 mm² for twisted shielded pairs cable, rigid without cable end for analog input 2 x 0.25...2 x 1.5 mm² for twisted shielded pairs cable, flexible with cable end for analog input 2 x 0.25...2 x 1.5 mm² for twisted shielded pairs cable, flexible without cable end for analog input 1 x 0.5...1 x 1.5 mm², flexible with cable end for control 1 x 0.5...1 x 1.5 mm², flexible without cable end for control 1 x 0.5...1 x 1.5 mm², rigid with cable end for control 1 x 0.5...1 x 1.5 mm², rigid without cable end for control 2 x 0.2...2 x 1.5 mm², flexible with cable end for supply circuit 2 x 0.2...2 x 1.5 mm², flexible without cable end for supply circuit 2 x 0.2...2 x 1.5 mm², rigid with cable end for supply circuit 2 x 0.2...2 x 1.5 mm², rigid without cable end for supply circuit |
| Wire Stripping Length | Control: 10 mm Supply circuit: 7 mm Analog input: 7 mm Communication bus: 7 mm |
| Communication Network Type | RS485 Modbus RTU master SUB-D 9 9.6...19.2 kbauds Ethernet Modbus TCP/IP server RJ45 10/100 Mbit/s |
| 9 Mm Pitches | 0 useful |
| Height | 22.5 mm |
| Width | 359 mm |
| Depth | 42 mm |
| Net Weight | 180 g |

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|-------------------------|--|
| Provided Equipment | Set of 1 connector Set of 1 bus connector Set of 1 power supply connector Set of 2 locking clips |
| Range Compatibility | Acti 9 iTL auxiliary Multi9 C60 Linergy Linergy FM Acti 9 iOF+SD 24 Acti 9 iACT24 Acti 9 iATL24 PowerLogic pulse output meter PowerLogic Modbus meter Acti 9 PowerTag wireless energy sensor Acti 9 RCA iC60 Acti 9 Acti9 iCT auxiliary Acti 9 Acti9 iC60 Acti 9 Acti9 iID Acti 9 Acti9 iSW-NA Acti 9 Acti9 iDPN Vigi Acti 9 Acti9 C40 Acti 9 Acti9 DT40 Acti 9 Acti9 DT60 Acti 9 Acti9 I-NA Acti 9 Acti9 ITG40 Acti 9 Acti9 iDPN Acti 9 Acti9 Reflex iC60 Ti24 connector |
| Commissioning Interface | ECOREACH Web page |
| Compatibility Code | Acti 9 Smartlink IP |

Environment

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|---------------------------------------|--|
| Ip Degree Of Protection | IP20 |
| Pollution Degree | 3 |
| Electromagnetic Compatibility | Resistance to electrostatic discharge (air discharge), 8 kV, conforming to IEC 61000-4-2 Resistance to electrostatic discharge (contact discharge), 4 kV, conforming to IEC 61000-4-2 Resistance to radiated electromagnetic fields (80 MHz...3 GHz), 10 V/m, conforming to IEC 61000-4-3 Power supply: resistance to fast transient (5...100 kHz), 2 kV, conforming to IEC 61000-4-4 Input/output: resistance to fast transient, 1 kV, conforming to IEC 61000-4-4 Communication bus: resistance to fast transient, 1 kV, conforming to IEC 61000-4-4 Conducted EMC (0.15...80 MHz), 10 V, conforming to IEC 61000-4-6 Immunity to magnetic fields at network frequency, 30 A/m, conforming to IEC 61000-4-8 Radiated emission (30...1000 MHz), class A, conforming to IEC 61131-3 Ed.3 Conducted emission (0.15...30 MHz), class A, conforming to IEC 61131-2 |
| Environmental Characteristic | Corrosive 3C2 conforming to IEC 60721-3-3 Salt mist 2 conforming to IEC 60068-2-52 |
| Vibration Resistance | 1 gn, amplitude = 3.5 mm (f = 5...300 Hz)10 cycles conforming to IEC 60068-2-6 |
| Shock Resistance | 15 gn for 11 ms conforming to IEC 60068-2-27 |
| Fire Resistance | Other parts: 650 °C (30 s) conforming to IEC 60695-2-10 On connection terminals: 960 °C (30 s) conforming to IEC 60695-2-10 |
| Tropicalisation | 2 |
| Relative Humidity | 93 % at 40 °C |
| Operating Altitude | 0...2000 m |
| Ambient Air Temperature For Operation | -25...60 °C |
| Ambient Air Temperature For Storage | -40...80 °C |

Packing Units

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|------------------------------|-----------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 3.400 cm |
| Package 1 Width | 6.300 cm |
| Package 1 Length | 36.700 cm |
| Package 1 Weight | 304.000 g |
| Unit Type Of Package 2 | S03 |
| Number Of Units In Package 2 | 32 |
| Package 2 Height | 30.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 10.215 kg |

Sustainability



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[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)



Transparency RoHS/REACH

Well-being performance

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|---|-----|
| <div> Mercury Free</div> | |
| <div> RoHS Exemption Information</div> | Yes |

Certifications & Standards

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|--------------------------|---|
| Reach Regulation | REACH Declaration |
| Eu Rohs Directive | Compliant with Exemptions |
| China Rohs Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |