

Product data sheet Characteristics

A9XMZA08

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





Main Range of product

Range of product	Acti 9
Product name	Acti 9 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 2.42.4835 GHz PowerTag 20
Web services	Web page

Complementary

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	
Input type	Current for analog input, 420 mA	
	Voltage for analog input, 010 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 mm² for twisted shielded pairs cable, rigid without cable end for communication bus 2 x 0.252 x 1.5 mm² for twisted shielded pairs cable, rigid with cable end for analog input 2 x 0.252 x 1.5 mm² for twisted shielded pairs cable, rigid without cable end for analog input 2 x 0.252 x 1.5 mm² for twisted shielded pairs cable, flexible with cable end for analog input 1 x 0.52 x 1.5 mm² for twisted shielded pairs cable, flexible without cable end for analog input 1 x 0.51 x 1.5 mm², flexible with cable end for control 1 x 0.51 x 1.5 mm², rigid with cable end for control 1 x 0.51 x 1.5 mm², rigid without cable end for control 2 x 0.22 x 1.5 mm², flexible without cable end for supply circuit 2 x 0.22 x 1.5 mm², flexible without cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid with cable end for supply circuit 2 x 0.22 x 1.5 mm², rigid with 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 9.619.2 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
Product weight	180 g
Provided equipment	Set of 1 connector Set of 1 bus connector Set of 1 power supply connector Set of 2 locking clips

Range compatibility	ITL auxiliary	
	C60	
	Linergy FM	
	IOF+SD 24	
	IACT24	
	IAC124	
	Pulse output meter	
	Modbus meter	
	PowerTag wireless energy sensor	
	RCA iC60	
	Acti 9 iCT auxiliary	
	Acti 9 iC60	
	Acti 9 iID	
	Acti 9 iSW-NA	
	Acti 9 iDPN Vigi	
	Acti 9 C40	
	Acti 9 DT40	
	Acti 9 DT60	
	Acti 9 I-NA	
	Acti 9 ITG40	
	Acti 9 iDPN	
	Acti 9 Reflex iC60 Ti24 connector	
Commissioning interface	ECOREACH	
	Web page	
Compatibility code	Acti 9 Smartlink IP	

Environment

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 MHz3 GHz), 10 V/m, conforming to IEC 61000-4-3
	Power supply: resistance to fast transient (5100 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 (0.1580 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 (301000 MHz), class A, conforming to IEC 61131-3 Ed.3 Conducted emission (0.1530 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 = 5300 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	02000 m
Ambient air temperature for operation	-2560 °C
Ambient air temperature for storage	-4080 °C

Packing Units

Package 2 Weight	10.839 kg	
Number of Units in Package 2	32	
Unit Type of Package 2	S03	
Package 1 Length	36.7 cm	
Package 1 width	6.3 cm	
Package 1 Height	3.4 cm	
Package 1 Weight	323 g	
Number of Units in Package 1	1	
Unit Type of Package 1	PCE	

Package 2 Height	30 cm	
Package 2 width	30 cm	
Package 2 Length	40 cm	

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	☑ REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Compliant EEU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	₫Yes	
China RoHS Regulation	☑ China RoHS Declaration	
Environmental Disclosure		
Circularity Profile	☑ End Of Life Information	