Product data sheet

Specifications

Modbus TCP communication module for ZBRN1, Harmony XB5R, 2 Ethernet RJ45 connectors

ZBRCETH

To be discontinued on: Aug 31, 2025

To be discontinued

Main

Range of product	Harmony Hub
Product or component type	Communication module
Device short name	ZBRCETH
Communication port protocol	Modbus TCP

Complementary

Integrated connection type	Ethernet RJ45 - 2 twisted pairs - class D
Transmission rate	10/100 Mbit/s
Communication service	Static IP DHCP, Modbus TCP/IP BOOTP
Physical interface	RJ45 - 10BASE-T RJ45 - 100BASE-TX
Marking	CE
Local signalling	1 LED for transmission activity 1 LED for reception activity (RX) 1 LED for module status 1 LED for network status
Product destination	ZBRN1 wireless Harmony Hub
Net weight	0.044 kg

Environment

Product certifications	CSA UL 508 BTL UL 873 UL 60730-1
Electromagnetic compatibility	EMC immunity conforming to IEC 61000-6-1 EMC immunity level 2 conforming to IEC 60730-1 Electrostatic discharge level 3B conforming to IEC 61000-4-2 Radiated RF fields level 3A conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test level 4B conforming to IEC 61000-4-4 Surge immunity test level 3 conforming to IEC 61000-4-5 Conducted RF disturbances level 3A conforming to IEC 61000-4-6 Conducted EMC level 2 conforming to IEC 60730-1 Conducted EMC conforming to IEC 61000-6-3 EMC immunity conforming to IEC 61800-3 Conducted EMC conforming to IEC 61800-3 category C1
IP degree of protection	IP20
Ambient air temperature for operation	-20…65 °C

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

Ambient air temperature for storage	-25…70 °C
Relative humidity	5…95 % without condensation
Pollution degree	2
Operating altitude	0...2000 m
Storage altitude	0…3048 m
Vibration resistance	1.5 mm (f = 3…13 Hz) 1 mm (f = 13…23 Hz) 2 gn (f = 23…150 Hz)
Shock resistance	15 gn for 11 ms

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.6 cm
Package 1 Width	12.1 cm
Package 1 Length	14.2 cm
Package 1 Weight	30.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	96
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	6.79 kg

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained

How we assess product sustainability

Environmental footprint

Total lifecycle Carbon footprint	1

Use Better

Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

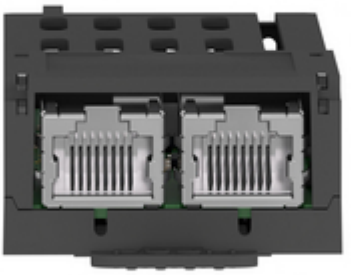
Use Again

Repack and remanufacture

Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Image of product / Alternate images

Alternative



PUSH