

# Product data sheet

## Characteristics

### ZBRCETH

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



#### 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 EN/IEC 61000-6-1 EMC immunity level 2 conforming to EN/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 EN/IEC 60730-2 Conducted EMC conforming to EN/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
Ambient air temperature for storage	-25...70 °C
Relative humidity	5...95 % without condensation
Pollution degree	2
Operating altitude	0...2000 m

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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 Weight	30 g
Package 1 Height	0.6 cm
Package 1 width	12.1 cm
Package 1 Length	14.2 cm

### Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins