



Main

Range of product	Harmony
Product or component type	Harmony Hub wireless/Serial Line gateway
Device short name	ZBRN2
Product specific application	Wireless Schneider Electric devices ecosystem
Function of module	Zigbee green power concentrator
Communication port protocol	Modbus client application
Antenna type	Integrated
Transmission frequency	2405...2480 MHz

Complementary

[Us] rated supply voltage	24...240 V AC/DC at 50/60 Hz (- 10...10 %)
Immunity to microbreaks	10 ms
Maximum sensing distance	328.08 ft (100 m) (in free field) 250 m (if a relay antenna is located between the transmitter and Harmony Hub) 60 m (if an external antenna is connected to Harmony Hub) 25 m (with Harmony Hub installed in a metal housing or in a closed metal enclosure)
Response time	< 30 ms
Channels utilisation	<= 60 devices
Power consumption in W	<= 4 W AC/DC
Breaking capacity	15 W
Breaking capacity	750 VA
Control circuit frequency	50...60 Hz +/- 10 %
Short-circuit protection	16 A by GB2 circuit breaker
Operating position	Any position
Electrical connection	1 conductor cable 0...0.01 in ² (0.2...4 mm ²) AWG 24...AWG 12 solid without cable end IEC 60947-1 2 conductors cable 0...0 in ² (0.2...1.5 mm ²) AWG 24...AWG 16 solid without cable end IEC 60947-1 1 conductor cable 0.2...0.75 mm ² AWG 24...AWG 14 flexible with cable end IEC 60947-1 2 conductors cable 0...0 in ² (0.2...2.5 mm ²) AWG 24...AWG 18 flexible with cable end IEC 60947-1
Tightening torque	0.35...0.4 N.m conforming to EN/IEC 60947-1 3.09...3.54 lbf.in conforming to EN/IEC 60947-1
Housing material	Self-extinguishing plastic
Status LED	1 LED (green): power ON 1 LED (yellow): communication network 5 LEDs (red): function mode 1 LED (green and yellow): reception signal
Mounting support	35 mm symmetrical DIN rail conforming to EN/IEC 60715 Mounting plate
Rated short-duration power frequency withstand voltage	1.5 kV at 50 Hz conforming to EN/IEC 60947-5-1
[Uimp] rated impulse withstand voltage	4 kV
Surge withstand	1 kV (differential mode) conforming to IEC 61000-4-5 2 kV (common mode) conforming to IEC 61000-4-5
Width	4.8 in (122 mm)
Height	3.54 in (90 mm)
Depth	2.36 in (60 mm)
Product weight	0.6 lb(US) (0.27 kg)
Antenna gain	0 dBi

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Integrated connection type	1 isolated serial link (2 x RJ45 in parallel in Modbus Serial line slave) ,Modbus slave RTU asynchronous in baseband RS485 half duplex 1.2...115.2 kbauds 2 twisted shielded pairs
Data storage equipment	SD card
Topology	Devices linked by daisy-chaining or tap junctions
Data format	7 or 8 bits, 1 or 2 stop bits
Parity	Even No Odd

Environment

radio agreement	SRRC ICASA ANATEL type III conforming to ETSI EN 301 489-3 FCC category 2 conforming to ETSI EN 300 440-1 RSS category 1 conforming to ETSI EN 300 440-1
product certifications	CCC CE CSA C-Tick GOST UL
directives	2004/108/EC - electromagnetic compatibility 2006/95/EC - low voltage directive 1999/5/EC - R&TTE directive
standards	EN/IEC 60950-1 EN/IEC 61131-2 UL 508 EN 62311 CSA C22.2 No 14 ETSI EN 300 440-2 ETSI EN 300 328
ambient air temperature for storage	-40...158 °F (-40...70 °C)
relative humidity	90 % (-13...131 °F (-25...55 °C)) without condensation conforming to ETSI EN 300 440-1
operating altitude	0...6561.68 ft (0...2000 m)
storage altitude	0...9842.52 ft (0...3000 m)
vibration resistance	+/- 3.5 mm (f= 5...14 Hz) conforming to IEC 60068-2-6 1 gn (f= 5...150 Hz) on panel mounting conforming to IEC 60068-2-6 2 gn (f= 8...150 Hz) on DIN rail conforming to IEC 60068-2-6
shock resistance	10 gn (6000 shocks during 16 ms) conforming to IEC 60068-2-27
IP degree of protection	IP20 (terminals) IP20 (casing) conforming to IEC 60529
pollution degree	2 conforming to IEC 60664-1
electromagnetic compatibility	1.2/50 µs shock waves immunity test :1 kV (differential mode) conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test :2 kV (common mode) conforming to IEC 61000-4-5 Immunity to microbreaks and voltage drops :10 ms conforming to IEC 61000-4-11
dielectric strength	3000 V AC between input and output 4250 V DC between input and output 1500 V AC between input and ground 2150 V DC between input and ground

Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 1402 - Schneider Electric declaration of conformity	Compliant - since 1402 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Nickel compounds, which is known to the State of California to cause cancer, and	Nickel compounds, which is known to the State of California to cause cancer, and

Diisodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. Diisodecyl 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 For more information go to www.p65warnings.ca.gov



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- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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