

# ZBRTT1

Wireless transmitter, Harmony XB5R,  
Transmitter components for wireless  
temperature sensors, green, 2400MHz



## Main

Range of product	Harmony XB5R
Product or component type	Wireless transmitter
Device short name	XB5R
Transmission frequency	2400 MHz
Antenna type	Omnidirectional

## Complementary

Max power consumption in W	60 mW
Number of channels	16
Modulation Technique	O-QPSK
Bandwidth	5 MHz
Antenna gain	0 dBi
CAD overall height	21 mm
CAD overall width	40 mm
CAD overall depth	40 mm
Net weight	0.034 kg
Measurement temperature	90 °C
Mechanical robustness	Free fall resistance 1000 mm conforming to EN/IEC 60068-2-32
Standards	IEC 61010-1 UL 61010-1 IEEE 802.15.4
Radio agreement	ANATEL ARIB T66 FCC ICASA RSS SRRC
Communication port protocol	Zigbee green power at 2.4 GHz conforming to IEEE 802.15.4
Maximum sensing distance	100 M in free field 25 M transmitter in a plastic box type XAL D and receiver in a metal enclosure 10 m transmitter in box type XAL D, receiver in metal enclosure and use relay-antenna
Acquisition time	2 ms
Response time	< 2 ms
Fixing mode	Magnetic fixing
Mounting mode	Magnetic
Electrical composition code	PW1

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.

## Environment

Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-40...70 °C
Relative humidity	10...95 % at -40...70 °C
IP degree of protection	IP54 conforming to EN/IEC 60529
IK degree of protection	IK06 conforming to EN/IEC 62262
Shock resistance	40 gn (duration = 6 ms) for 3 shocks conforming to IEC 60068-2-27 20 gn (duration = 16 ms) for 1000 shocks conforming to IEC 60068-2-27 10 gn (duration = 11 ms) for 3 shocks conforming to IEC 60068-2-27
Vibration resistance	2 gn (f= 5...200 Hz) conforming to IEC 60068-2-6 4 gn (f= 200...500 Hz) conforming to IEC 60068-2-6 1 gn (f= 10...2000 Hz) conforming to IEC 60068-2-64 1 gn (f= 5...500 Hz) conforming to IEC 60068-2-6
Electromagnetic compatibility	Susceptibility to electromagnetic fields - test level: 25 V/m (80 MHz...6 GHz) conforming to EN/IEC 61000-4-3 Susceptibility to conducted disturbances - test level: 20 V (0.15...80 MHz) conforming to EN/IEC 61000-4-6 Electromagnetic field immunity test - test level: 1000 A/m (pulsed) conforming to EN/IEC 61000-4-8 Electromagnetic field immunity test - test level: 300 A/m (continuous) conforming to EN/IEC 61000-4-8 Electromagnetic field immunity test - test level: 1000 A/m (pulsed) conforming to EN/IEC 61000-4-9 Damped oscillatory wave - test level: 3 kV conforming to IEC 61000-4-10 Damped oscillatory wave - test level: 2.5 kV conforming to EN/IEC 61000-4-18 Surge immunity test conforming to EN/IEC 61000-4-18 Surge immunity test (common mode) conforming to EN/IEC 61000-4-5 Immunity to conducted RF disturbances - test level: 30 V (differential mode) conforming to EN/IEC 61000-4-5 Immunity to conducted RF disturbances (continuous) conforming to IEC 61000-4-16 Immunity to conducted RF disturbances - test level: 300 V Immunity to conducted RF disturbances (short term) conforming to IEC 61000-4-16
Product certifications	CSA CCC UL GOST C-Tick BT 2006/95/EC
Directives	2004/108/EC - electromagnetic compatibility 1999/5/EC - R&TTE directive

## Packing Units

Unit Type of Package 1	PCE
Package 1 Length	9.0 cm
Number of Units in Package 1	1
Package 2 Width	30.0 cm
Package 2 Height	30.0 cm
Package 2 Weight	6.569 kg
Package 1 Width	4.5 cm
Package 1 Height	4.5 cm
Package 1 Weight	62.0 g
Number of Units in Package 2	100
Unit Type of Package 2	S03
Package 2 Length	40.0 cm

## Contractual warranty

Warranty	18 mois
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Dimensions

