

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	0.83 in (21 mm)
CAD overall width	1.57 in (40 mm)
CAD overall depth	1.57 in (40 mm)
Net Weight	0.07 lb(US) (0.034 kg)
Measurement Temperature	194 °F (90 °C)
Mechanical robustness	Free fall resistance 1000 mm 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 2.4 GHz IEEE 802.15.4
Maximum sensing distance	328.08 Ft (100 m) in free field 82.02 Ft (25 m) transmitter in a plastic box type XAL D and receiver in a metal enclosure 32.81 ft (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

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Environment

Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Ambient Air Temperature for Operation	-40...158 °F (-40...70 °C)
Relative humidity	10...95 % -40...158 °F (-40...70 °C)
IP degree of protection	IP54 IEC 60529
IK degree of protection	IK06 IEC 62262
Shock resistance	40 gn 6 ms) 3 shocks IEC 60068-2-27 20 gn 16 ms) 1000 shocks IEC 60068-2-27 10 gn 11 ms) 3 shocks IEC 60068-2-27
Vibration resistance	2 gn 5...200 Hz)IEC 60068-2-6 4 gn 200...500 Hz)IEC 60068-2-6 1 gn 10...2000 Hz)IEC 60068-2-64 1 gn 5...500 Hz)IEC 60068-2-6
Electromagnetic compatibility	Susceptibility to electromagnetic fields - test level: 25 V/m (80 MHz...6 GHz) conforming to IEC 61000-4-3 Susceptibility to conducted disturbances - test level: 20 V (0.15...80 MHz) conforming to IEC 61000-4-6 Electromagnetic field immunity test - test level: 1000 A/m (pulsed) conforming to IEC 61000-4-8 Electromagnetic field immunity test - test level: 300 A/m (continuous) conforming to 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 IEC 61000-4-5 Immunity to conducted RF disturbances - test level: 30 V (differential mode) conforming to 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[RETURN]CCC[RETURN]UL[RETURN]GOST[RETURN]C-tick[RETURN]BTT 2006/95/EC
Directives	2004/108/EC - electromagnetic compatibility 1999/5/EC - R&TTE directive

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.77 in (4.5 cm)
Package 1 Width	1.77 in (4.5 cm)
Package 1 Length	3.54 in (9.0 cm)
Package 1 Weight	2.19 oz (62.0 g)
Unit Type of Package 2	S03
Number of Units in Package 2	100
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	14.48 lb(US) (6.569 kg)

Offer Sustainability

REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China RoHS Regulation	 China RoHS Declaration

Dimensions

