



### 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

### 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
Number of Units in Package 1	1
Package 1 Weight	62 g
Package 1 Height	4.5 cm
Package 1 width	4.5 cm
Package 1 Length	9 cm
Unit Type of Package 2	S03
Number of Units in Package 2	100
Package 2 Weight	6.6 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm

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Dimensions

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