

Q17 Locator Product Specification



Product Specification

Quuppa Q17 (Quuppa Locator) is part of the Quuppa Intelligent Locating System™. Other parts of the Quuppa Intelligent Locating System™ are Quuppa Tags and Quuppa Positioning Engine software. The Quuppa Intelligent Locating System™ allows you to locate and track any objects equipped with Quuppa Tags in an environment equipped with Quuppa Locators.

Brand name:	Quuppa
Product name:	Locator
Model number:	Q17
Purpose:	Quuppa Q17 is an RF transceiver using the 2.4 GHz frequencies
Dimensions:	Ø: 170 mm, h: 31 mm (locator main unit) Ø: 126 mm, h: 10 mm (mounting bracket)
Weight:	390g
Color:	White
IP Protection Class:	IP 44
Operating temp. range:	0°C ... +60°C
Storage temp. range:	−20°C ... +70°C
Power supply:	48 V PoE (Power over Ethernet) or 5V DC (micro USB)
Power consumption:	1 W
Charger / Adapter:	N/A
Certifications:	CE, FCC, IC, Japan, Korea, Australia, New Zealand, UL, EAC, Brazil, Saudi Arabia

Important: Quuppa devices should only be used in environments that fit the conditions listed in the above table. Exposure to more stress (e.g. operating the device in higher than recommended temperatures) may affect the reliability of the device or even cause permanent damage to the device.

Positioning Radio

Radio transmission:	Bi-directional
Number of channels:	81 channels (1 MHz), only one at a time (Japan: 80 channels)
Carrier frequencies:	2401 2402 ... 2480 2481 MHz (Japan: 2402 2403 ... 2480 2481 MHz)
Modulation:	GFSK
Max Output Power:	2.5 mW
Antenna:	Integrated printed patch antenna with 0 dBi gain
Antenna connector:	N/A

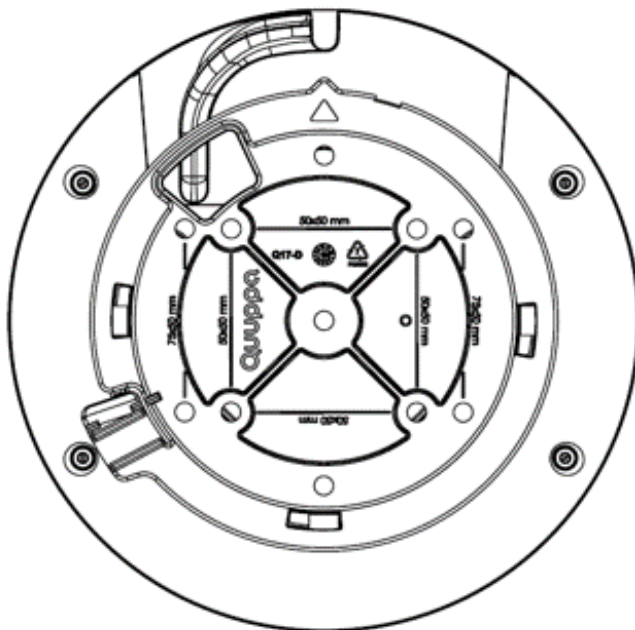
Communication Radio

Radio transmission:	Bi-directional
Number of channels:	40 channels (1 MHz), only one at a time
Carrier frequencies:	2402 2404 ... 2478 2480 MHz
Modulation:	GFSK
Max Output Power:	2.5 mW
Antenna:	MID Chip antenna with 0 dBi gain
Antenna connector:	N/A

Front View:



Rear View (with bracket):



Environmental Tests

The Q17 has passed the environmental tests listed in the table below.

Test	Reference
Dry heat, +60 °C / <50 %RH / 8 h, in operational mode	<u>IEC/EN60068-2-2</u>
Cold, operational	<u>IEC/EN60068-2-1</u>
Damp heat operational, +60 °C / 85%, 1 week IEC/EN60068-2-78	<u>IEC/EN60068-2-78</u>
Change of temperature, +60°C/-20°C 1 h cycle, 24h	<u>IEC/EN60068-2-14</u>
Dry heat, storage, 70°C	<u>IEC/EN60068-2-2</u>
Cold, storage., - 30°C	<u>IEC/EN60068-2-1</u>
UV exposure IEC/EN60068-2-5, procedure C	<u>IEC/EN60068-2-5, procedure C</u>
IK (mechanical impact) test -IK06: • impact energy : 1 J • number of impacts: five	<u>EN62262</u> <u>IEC60068-2-75</u>
Random vibration test	<u>MIL-STD-810F</u>
UL (Impact, drop, temperature, flammability, needle flame, chemicals test)	UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07
CB test certificate by UL	IEC 60950-1(ed.2), IEC 62368-1:2014