



Overview

The Generation Q Quuppa Locator Q35 is the newest addition to the Generation Q product line. The Q35 boasts a smaller, lighter design with a considerable increase in performance and a variety of other improved hardware components and firmware features compared to its predecessor, the LD-7L Locator. The Q35 is designed for use in industrial and outdoor environments and its future-proof design enables the adding of new features later on.

The Q35 Locator works together with the Quuppa Locator Subscription. The Quuppa Locator Subscription must be valid to operate the Locator unit. The subscription model provides added flexibility to move Locators between projects as needed, even into existing projects that are currently using LD Generation Locators. In mixed projects all Locators must have either a valid subscription or license to enable the Quuppa Positioning Engine (QPE) to run.

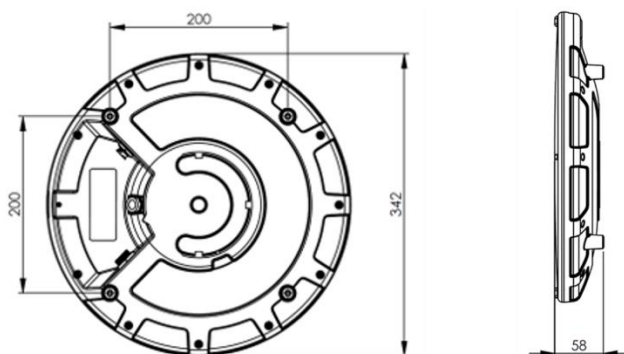
This document provides an overview of the new features made available by the Q35 Locator. Quuppa reserves the right to make any changes to the features of this product at any time.

We hope this new release will inspire and help you to **Do More With Location.**

Hardware Upgrades

Design

The Q35 Locator is smaller in size (Ø: 342 mm, h: 55 mm) compared to the LD-7L Locator (400 mm × 308 mm × 59 mm) and significantly lighter (1300g) than the LD Generation LD-7L Locators (4000g). The new design enables superior delivery efficiency as now as many as 90 Locators can fit onto the same pallet.



Power Source

The Q35 Locator offers a standard Micro USB port (5V) for powering, in addition to the Power-over-Ethernet (PoE) powering option.

The USB port of the Q35 is USBFirewire RR-11A200-0P-XX and it accepts USBFirewire RR-11B220-05-XX series waterproof USB cables.

Plug & Play Ethernet

The Q35 offers a full-duplex, Power Class 1 (very low power) 100 Mbit/s Ethernet for faster network connectivity with support for all cable types, enabling plug & play compatibility with all switches.

The Ethernet port of the device is USB Firewire RR-125300-03-ZX (i.e. GTContact GT125300-03-Z3). It is compatible with e.g. the following:

- Ready made cables, where the waterproof connector has been attached by the cable manufacturer: **USB Firewire RR-125320-02-XX** (i.e. GTContact GT125320-0X-xx).
- Connector housing parts to be used over the RJ45 connector: **USB Firewire RR-125360-00** or **USB Firewire RR-125330-00**.

Mounting Brackets

The Q35's mounting holes are arranged according to VESA MIS-F, 200, Y, 6 standard (Four M6 threaded holes in 200x200mm pattern). This makes the device compatible with a wide range of mounting brackets available on the market, allowing the selection of the most suitable one for the installation environment in question.

Multi-Coloured LED

The Q35 comes with a multi-coloured LED indicator light to allow users to immediately recognise and assess the status of the Locator.

Crypto Chip

A state of the art crypto chip has been included in the Q35 Locator for enhanced security. On top of the LD generation security features, the crypto chip enhances the security of the data traffic between the Locator and the QPE, enables authenticated firmware updates and allows the use of Locators with the offline module for deployments in high-security isolated environments.

Durability Upgrades

IP66 Rating

The Q35 has an IP rating of IP66, which classifies the device as both waterproof and dustproof, making it suitable for outdoor use in a variety of environments and weather conditions as well as in industrial use.

Note: Make sure to also use appropriate waterproof cables and connectors designed for outdoor when installing the device in outdoor environments (or any other environment with high levels of moisture or dust). For more information, see **Plug & Play Ethernet** above

Operating Temperature Range

The Q35 can be used and stored within the temperature ranges shown in the table below.

Operating temperature range	-20°C...+60°C
Storage temperature range	-30°C...+70°C

Mechanical Durability

The Q35 is a durable product that has been tested for mechanical durability against mechanical impacts (e.g. IK 09 rating) and vibration.

The Q35 can withstand salt-laden environments, having been tested with cyclic salt mist (as specified in IEC 60068-2).

The Q35 also passed UV exposure tests (e.g IEC/EN60068-2-5).

Performance Upgrades

Locator Capacity

The Q35 Locator has a measured throughput (i.e. how much data it can process) of some 450+ Direction Finding packets per second. This is around double that of its predecessor, the LD-7L Locator, providing improved Locator performance. Please note that these values are theoretical throughput values, from measurements made in laboratory conditions. A variety of factors affect the throughput levels that can be reached in actual deployment environments.

Memory and Processing Power

Compared to its predecessor (the LD-7L Locator), the Q35 Locator offers significant improvements to memory and processing power, enabling the Q35 to provide even better performance. For example:

- 8 x flash memory
- 4.5 x processing power
- 16 x RAM

Coexistence with New LTE Mobile Networks

New design for radio filtering characteristics enables better coexistence with LTE mobile networks