









- Q-Free ParQ is a modern, flexible, and modularized parking management system
- Our competitive edge is based on:
 - Unrivalled performance: "best in class data quality and accuracy"
 - High flexibility: "modular end-to-end offering built on open standards"
 - Innovation: "ticketless, barrierless, cashless, dynamic parking"
 - Trust: "high delivery precision, global reach/local presence, and ethical business practices"









Q FREE



Vehicle Identification & Detection



LEADING THE WAY



















PARQ Vehicle Detection – Single space sensors





LEADING THE WAY









- Q-Free ParQ contains all necessary functions for access control
 - Client management
 - Permit Types
 - White lists
 - Black lists
 - Flexible period permits



- Permits enable flexible mixed use of the parking facility including
 - Residential
 - Corporate
 - Regular users





• Flexible Message display capability with graphic editor in Q-Free ParQ



Full Color LED Matrix Display















- Q-Free ParQ contains a flexible tariff engine
- Full set of payment reports



FREE





PARQ Vehicle Detection – Single space sensors





LEADING THE WAY

































- Full support for contravention processing
- API for external payment claims providers

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		76707	PPP100	17 Mar 2017	20 Mar 2017 19:08:20	13	02h 17m 07s	No Payment
		76710	D2HOT4U	17 Mar 2017	20 Mar 2017 22:16:57	13	04h 12m 12s	No Payment
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FACILITY COUNTING Help you and your customers know how many spaces are available in your garage real time.



LEVEL COUNTING

Minimize customer frustration with a level counting solution from Q-Free.



SINGLE SPACE MONITORING

Help your customer get in fast and optimize space utilization with a single space monitoring system.



WAY FINDING Q-Free has pioneered the use of way finding systems and continues to develop innovative new solutions to help drivers and car park operators.



PARQ Wayfinding and payment apps (Q1-18)



Purchasing a permit will save you the hassle of payments

PURCHASE DISMI





LEADING THE WAY

PARQ New outdoor single space occupancy detector



- Competitive price.
- "Buried sensor" applicable in all environments enabling efficient road surface maintenance including sweeping, snow removal, etc.
- Ultra-low power technology enabling lifetime of battery for 9-10 years.
- Highest industry accuracy: 98 99 % for tracking open parking spaces.
- Auto calibration that ease installation and results in lower installation cost.
- Bluetooth enabled for "find my car" future capability.
- Designed for the future with Internet of Things (IoT) connectivity directly to future 4G and 5G telecom networks.





- Operating frequency
- Operating frequency (IOT-NB) : LTE band 8 (optional band 5 and 20)
- Detection
- Mounting •
- Snowplow resistant
- Load resistance •
- Mounting dimensions •
- Protection
- Color
- Operating temp
- Storage temperature
- Detection height ٠
- Communication range ۲
- Power supply
- **Expected lifetime**

- : 863-868MHz EUR, 915-921MHz US
- : Magnetometer and Radar
- : Buried in the ground, flush with the surface
- : YES
- : Heavy traffic
- :Ø110 mm
- : IP67, completely sealed
- : Grey
- : -40 ... +85°C
- :-40 ... +85°C
- : 0 ... 90 cm
- : 2000m (line of sight)
- : Built in lithium battery
- : 5-10 years*



PARQ New outdoor single space sensor (Q4-17)

A main challenge for Smarter Cities concepts today is that each project needs a separate infrastructure to ensure wireless communication from sensors to the back office systems resulting in high infrastructure cost and potential frequency conflicts.

Two new international mobile standards for IoT were established in 2016 for the 4G network: Narrowband IoT (NB-IoT) and eMTC (enhanced Machine type communication).

Telenor and Q-Free are the first in Norway to use the new communication technology NB-IoT and our pilot was launched Jan 30th where our OSSS communicate directly with Telenor's base stations/4G network.



Leading the way in Intelligent Transport Systems

