



# LIQUIDPARK

**INTELLIGENT  
CARPARK GUIDANCE SYSTEM**

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D 05/2016 - WE RESERVE THE RIGHT TO MAKE TECHNICAL CHANGES

## LIQUIDPARK

### INTRODUCTION

THE OFFERED SYSTEM PROVIDES THE DRIVERS WITH REAL-TIME AND ACCURATE INFORMATION OF AVAILABLE PARKING SPACES AND WILL GUIDE THEM TO THE NEAREST AVAILABLE SPACE THROUGH THE SHORTEST ROUTE WITH THE HELP OF DIRECTIONAL DISPLAYS AT STRATEGIC LOCATIONS. THE SYSTEM ALSO PROVIDES DETAILED STATISTICS AND REPORTS ON THE CARPARK USAGE AND EVENTS.

THE SYSTEM FOLLOWS ZONE BASED COUNTING PRINCIPLE AND THEREFORE CAN BE A CHEAPER SOLUTION FOR LARGE MULTILEVEL CARPARKS. DIRECTION DETECTION LOGIC (DDL) IS IMPLEMENTED USING INDUCTIVE LOOP DETECTOR TECHNOLOGY TO PROVIDE MORE THAN 99% ACCURACY IN COUNTING.

LIQUIDLAD CARPARK GUIDANCE SYSTEM FOLLOWS A HIERARCHICAL AND MODULAR ARCHITECTURE AND THEREFORE IS SCALABLE TO ANY EXTEND.

### SERVER

THE CENTRALISED SERVER HOLDS THE SYSTEM DATABASE, ADMINISTRATION & REPORTING TOOL AND COMMUNICATES WITH ALL THE LEVEL CONTROLLERS. OUR NEW CLIENT INTERFACE IS DESIGNED AND DEVELOPED WITH SIMPLE EASY TO USE USER INTERFACE TO PRECISELY MEET OUR CLIENT'S REQUIREMENTS.

LIQUIDPARK PROVIDES DETAILED REAL-TIME REPORTS AND STATISTICS FOR INDIVIDUAL ENTRY, EXIT, ZONE & LEVEL ENSURING THE MOST EFFICIENT MANAGEMENT OF THE CARPARK.

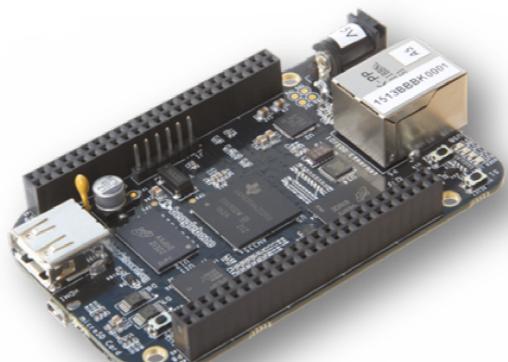


CONFIGURATION & MONITORING APPLICATION (LIQUIDPARK)

### LIQUIDPARK

### MAIN CONTROLLER / LEVEL CONTROLLER

THE CONTROLLERS ARE DESIGNED AS LINUX BASED EMBEDDED HARDWARE WITH 1GHZ ARM CORTEX A8 PROCESSOR WITH 4GB OF ONBOARD RAM FOR THE BEST PERFORMANCE.



MAIN CONTROLLER / LEVEL CONTROLLER



## LIQUIDPARK

### VARIABLE MESSAGE SIGN

IP BASED VARIABLE MESSAGE SIGN DISPLAYS THE FREE SPACE COUNT AT STRATEGIC LOCATIONS. THE DISPLAY IS COMPLETELY DESIGNED AND DEVELOPED BY LIQUIDLAD, SO WE GIVE COMPLETE FREEDOM TO THE CLIENT TO SELECT THE SIZE AND NUMBER OF DIGITS IN THE DISPLAY.



VARIABLE MESSAGE SIGN

## LIQUIDPARK

### FEATURES

1. STARTS THE NORMAL OPERATION IN LESS THAN 15 SECONDS AFTER POWERUP.
2. RETAINS THE DATA AND CONFIGURATION DURING SYSTEM RESTART AND POWER FAILURES.
3. EASY TO INTEGRATE WITH THIRD PARTY SYSTEMS IN THE CARPARK INCLUDING CARPARK BARRIERS, FIRE ALARMS ,BMS ETC.
4. VISUALISATION OF CARPARK ON A VIRTUAL MAP.
5. FACILITY TO MODIFY THE OCCUPANCY OF ZONES DURING RUN TIME.
6. THE GUIDANCE SYSTEM CAN BE OPERATED STANDALONE WITHOUT MANAGEMENT SERVER.
7. FULL GRAPHIC INTERFACE FOR REAL-TIME STATUS MONITORING AND REMOTE MANAGEMENT.
8. STATISTICS ON THE AVERAGE OCCUPANCY OF INDIVIDUAL ZONES AND LEVELS.

### LIQUIDPARK

### ADD-ON FEATURES

ANDROID, IOS APPLICATIONS AND WEB PORTAL TO PROVIDE REAL-TIME PARKING STATUS TO THE CUSTOMERS, SO THAT THEY CAN AVOID VISITING THE CARPARK AT PEAK TIMES.



### LIQUIDPARK

### INDUCTIVE LOOP DETECTOR

INDUCTIVE LOOP DETECTORS ARE USED TO DETECT THE PRESENCE OF VEHICLE. THEY ARE USED IN EACH ENTRY AND EXIT OF EACH ZONE AND LEVEL. A COIL OF WIRE IS BURIED UNDER THE DRIVEWAY AND CONNECTED TO THE NEAREST DETECTOR. THE DESIGN CONSISTS OF DUAL LOOP WITH DIRECTION DETECTION LOGIC TO ELIMINATE ANY ERROR DUE TO WRONG DIRECTION OF VEHICLE MOVEMENT.



DUAL CHANNEL INDUCTIVE LOOP DETECTOR

CAN BE INTEGRATED WITH LIGHTING SYSTEM INSIDE THE PARKING AREA TO SWITCH OFF THE LIGHTS WHEN EVER A PARTICULAR ZONE OR LEVEL IS EMPTY.

