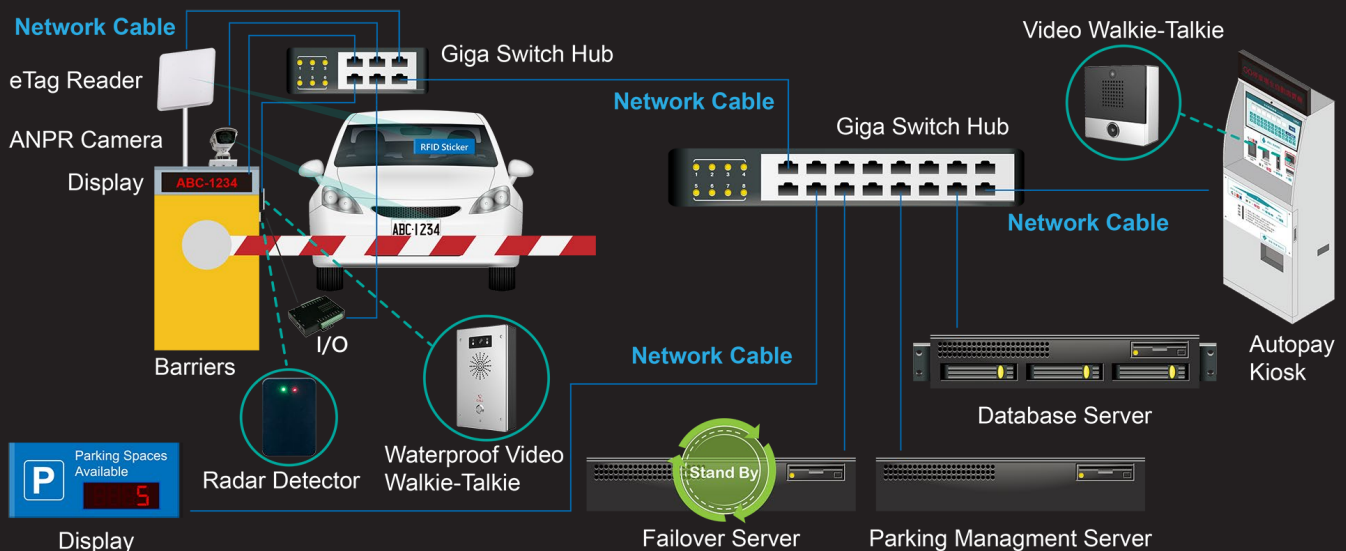ParkDB®
Database Server

Overview

ParkDB® server can synchronously backup the list and vehicle entry and exit data of each parking lot. The customer can check the status and update the database of the parking lot anytime and anywhere through the browser, achieving the advantages of centralized management and localized processing; in addition, there are many excellent features.

Features

- Data Storage: Synchronously store each parking lot's license plate list and vehicle entry and exit data to utilize centralized management and localized processing. Working with the ParkBack® Failover server, it can seamlessly take over and continue operating when the parking management server crashes.
- Real-time Monitoring: Users can import, export, and modify the license plate list, query the real-time and historical data of vehicle entry and exit, set camera parameters, monitor live videos, check empty parking spots, and remotely open gates through the browser anytime, anywhere.
- Empty Parking Space: Drivers can query the information about real-time empty parking spaces through the browser via their mobile phones to facilitate the customers to determine whether to go to this parking lot.
- Login Parameters: Support user permissions, verification code input, automatic logout, delayed login, password combination, and other settings.
- Network Security: Users need to log in to the database host with a password, support SSL encrypted transmission, and record the last login time of each user.
- Import Name-list: Support automatic/manual import of license plate number lists to the parking management and database servers. (option)
- Schedule Backup: Support automatic/manual backup database to achieve backup database to the remote site.
- Embedded O.S.: An embedded operating system prevents the HDD break causing the system to crash and causing a virus problem.
- Redundancy Storage: To protect recorded data with Raid storage redundancy, an Auto pop-up warning message, and sound alarm from notifying the manager when the hard disk is damaged while supporting automatic rebuilding after the hard disk is updated.
- Backup O.S.: Embedded O.S. software installed on the SSD with redundancy RAID 1 ensures auto takeover when anyone's SSD is defective.
- S.M.A.R.T.: Predict HDD failure and send the user a warning message with two levels via email, SMS, and phone call, and execute the preinstalled program.
- Alarm Notify: The ParkHelp® Parking management server actively uploads the event to the database, and the user can receive the event alarm message in real-time through the browser.
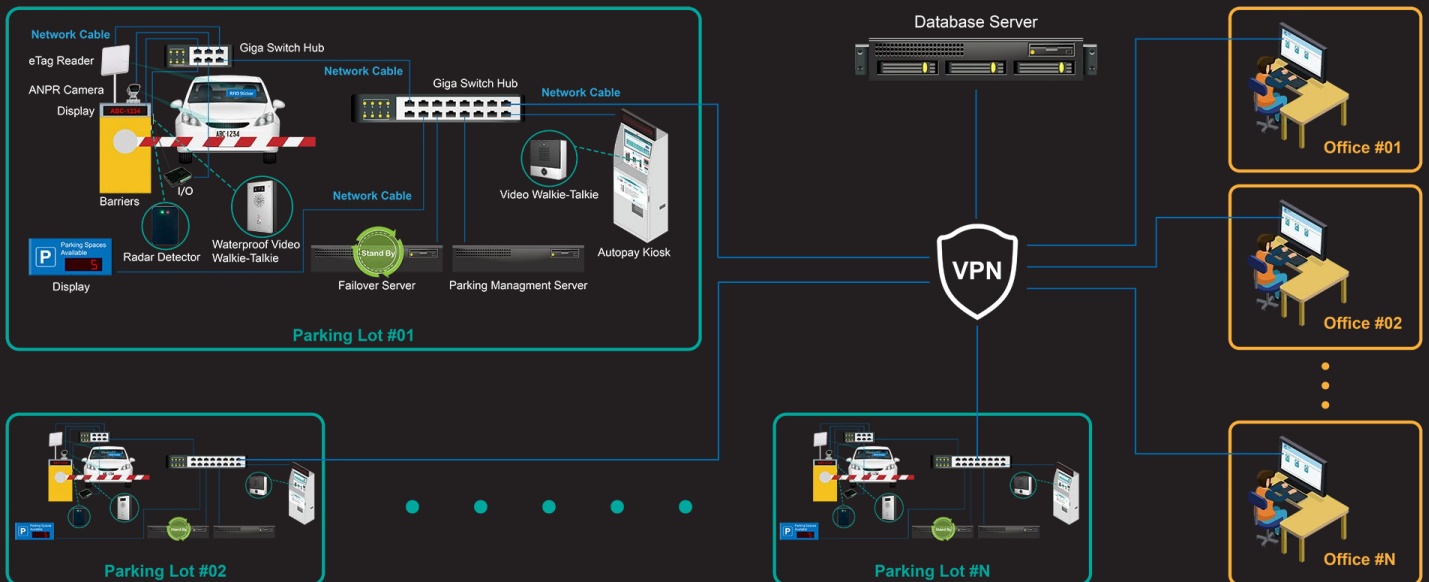
System Configuration

Network Cable
eTag Reader
ANPR Camera
Display
Giga Switch Hub
Network Cable
Giga Switch Hub
Video Walkie-Talkie
Network Cable
RFID Sticker
ABC-1234
ABC-1234
I/O
Barriers
Network Cable
Autopay Kiosk
Parking Spaces Available
Radar Detector
Waterproof Video Walkie-Talkie
Database Server
Display
Stand By
Failover Server
Parking Managment Server

ParkDB® Database Server Specification

HARDWARE

Platform	Built-in Embedded IoT on SSD. Raid 1 Dual Embedded O.S. ensures auto take over when there is anyone SSD defect. (Option)
Storage	4 HDDs up to 40TB; (4x10TB) capacity. Hot-Swap Bays (Option)
RAID Level	The Database is stored in Raid 1 mode, while backup to another hard disk every fixed time (Default every 15 minutes)
Network	Gigabyte Ethernet x2
Display Port	Three display (VGA, HDMI, Mini-display) ports up to 4K resolution.
Cooling Fan	8cm fan x3; built-in temperature controller to control fan speed
I/O Port	USB x4, Audio in/out (jack)
Watchdog	Built-in Hardware Watchdog and Software Watchdog timer.
Power Supply	500W ǀ 100-240VAC (47-63 Hz)
Dimension / Net Weight	88(H) x483(W)x 660(L) mm ǀ 12Kg (Without HDD)
Chassis	2U Rackmount Chassis
Environment	Operation: Temperature 0˚ C ~ 50˚ C; Humidity 10% ~ 90%(N/An-condensing) Storage: Temperature -40˚ C ~ 70˚ C; Humidity 5% ~ 95%(N/An-condensing)
Certification	CE / FCC

Software

Operate	Remote access and operation via Browser (Chrome, Edge, Firefox, Opera, Safari, I.E.)
Empty parking spaces display	Check multiple the number of vacant parking spaces through mobile phones. (Parking lot needs to build up the parking space counting system)
Real-Time Monitoring	Display multiple gates' real-time statuses, such as live video, entry/exit time of vehicles, license plate number, eTag code, list attribute, passibility status, Error reasons, and photo.
Remote control	Allow opening gates remotely when someone cannot pass the gate barrier.
Remote playback	Searching video files via time range and location for remote playback; Also allow to click to playback directly from the license plates list table.
Enter/Exit records	Check enter/ exit records of vehicles from multiple gates via the time range, stay time, and gate. Allow finding whether there is an overstay vehicle.
Name-list maintenance	Allow to add/delete/modify lists in batches or individually from anywhere.
Remote setup	Remotely set the parameters of the LPR camera, Parking management server, and parking camera.
Permission setup	Set up user permissions individually via administrator.
Payment records	Allow search payment records via time range, license plate number, payment machine, payment way, invoice status, etc.
Payment checkout statistics	Perform checkout statistics through parameters such as time range, payment machine number, payment method, invoice status, etc.
Parking fee report statistics.	Use parameters such as payment machine, time range, and invoice status to perform daily, monthly, and annual report statistics.
Database maintenance	Allow backup, deletion, and emptying of the Database remotely.

Oreder Information ParkDB® Database Server

Multiple Parking Lots System Configuration

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