

Automobile Company CAR PARKING MANAGEMENT at the Factory premises



A factory premises that needed an automated solution to manage multiple entry/exit points while enhancing security. Implementation of next-gen RFID-enabled remotely-controlled solutions results in increased efficiency and enhanced security.

Company:

Toyota Kirloskar Motor, Bangalore, India

Facility: Factory premises

Challenge:

- Multiple entry/exit gates at factory premises which contains a large parking area that has capacity for hundreds of vehicles.
- Difficulty in keeping track of vehicles that may not use the same gate for entry and exit.
- Preventing unauthorized access by vehicles into the premises.
- Monitoring vehicle location within the parking area.



Xtenna™ Reader/ Antenna (shown circled in picture) deployed at gate

Proposed Solution:

- Essen RFID's Car Parking Management System (CPMS) detects all vehicles moving into and within the premises.
- Deployment of Essen RFID's Xtenna™ Reader/ Antennas at all gates and at strategic locations within the parking area, along with vehicle tagging with Essen RFID's Parka™ tags that transmit vehicle particulars and ownership details to a central back-end database for verification.
- Transfer of all data in real-time results in automated functioning, streamlined queuing management and instant knowledge of current parking status.
- Automated messaging to back-end server and interlinking with factory's employee management systems ensures that the RFID tag ceases to function after an employee's vehicle exits from the premises.

Realised Benefits:

- Streamlined entry
- Remotely controlled and managed 24x7 service
- Real-time tracking
- Process makes highest level security possible

TECHNOLOGY

Solution:

EPC Gen2 compliant vehicle tracking system

Tag Type:

Parka™ UHF Passive

Reader/Antenna:

Xtenna™ Long Range

Read Range:

17 metres (50 feet)

Method:

Multiple Tracking via Integrated Reader/Antenna modules

Number of modules: 6

Integration Platform:

RFID Middleware: Xtenna™ Studio

Application: Essen RFID's CPMS

Database: SQL Server 2005 Exp. ed.

Tag Manufacturer/Supplier:

Essen RFID

Reader/Antenna Manufacturer:

Essen RFID

Systems Integrator:

Essen RFID

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