

# KGIS FleetSMART

Reliable and user-friendly end to end smartcard solutions



*FleetSMART is KGIS's latest ARM-Linux based intelligent smartcard solution. Drawing on the strengths of open design system. FleetSMART is versatile, highly interoperable and scalable. FleetSMART is our next generation challenger for the contactless smartcard and revenue collection sector.*

*FleetSMART* provides convenient, secure and reliable applications for access control, security screening and automated fare collecting systems. *FleetSMART* offers contact and contactless smartcard solutions for all modes of transport and can be extended to include ETM ticket vending machines, point of sale terminals, rail and metro access control systems incorporating barriers and turnstiles and building control and management systems.

Flexible and user-friendly, *FleetSMART* helps to resolve the constraints of cumbersome payment and multiple card systems by providing an end to end seamless transaction solution which reduces cash handling and end of day coin collection, sorting, handling and banking. *FleetSMART* is ideally placed to offer operators a one stop shop combined transport-leisure-membership-payment facility through its integrated payment application.

*FleetSMART* is compatible with ISO14443 type A, B and C smartcards including MiFare and Octopus and includes security enhancements and validation rules which help to minimise card fraud. A dedicated back end central server provides card tracking, monitoring, data processing and payment reconciliation and produces management reports for monitoring revenues, customer behaviour, trends and service improvements.

*FleetSMART* has many applications from public transport systems to car parks, supermarkets, vending machines, pay phones, retail outlets, restaurants, school and leisure facilities and can be deployed as part of an integrated solution including other functions to provide added value to both operators and passengers.

## [ feature benefits ]

- ▶ ISO14443 Type A, B & C card compatibility
- ▶ Can support multiple card types simultaneously
- ▶ Can be deployed with additional applications

## [ management benefits ]

- ▶ Multi-operator environment (trams, trains, buses)
- ▶ Seamless settlement and clearance
- ▶ Accurate revenue collection and reconciliation
- ▶ Service branding, kudos and patronage

## [ financial benefits ]

- ▶ Quicker transaction times
- ▶ Eliminates card recycling costs
- ▶ Multi-participating operator economies
- ▶ End to end loss-less data transfer and security
- ▶ Reduction in fraud

## KGIS FleetSMART

FleetSMART has a wide variety of predefined libraries and matching service platforms to allow integrated service solutions to provide unparalleled flexibility.

### KGIS FleetSMART Platform Basic Specifications

Processor Module	Atmel AT91RM9200 (ARM9) 180MHz
Memory	12MB Flash (8MB + 4MB), 32/64 MB SDRAM, 512KB battery-backed SRAM
RTC	Battery-backed RTC
Supply Voltage	12V to 30V DC (automotive protected)
Interfaces	3 x USB Host connections 1 x USB Device connection 9 x Serial ports: 1 x Modem slot 1 x IrDA port 1 x ISO 7816 SIM/SAM card socket 4 x RS-485 Accessory Ports 1 x RS-232/RS-485/TTL Port 1 x RS-232 Service Port Accessory ports powered with 5V/12V
Size	1 DIN
Operating System	Linux
Communications Modules	GSM/SMS/GPRS DataTAC Trunk Radio MAP27 Interface IDEN Wireless LAN
Contactless Smart Card	ISO14443 Types A, B and C System allows simultaneous support of different card ISO 14443 card types
Navigation System and Vehicle Databus Interface (Optional)	KGIS Custom Navigation Processor 12 Channel Parallel High Sensitivity GPS Gyro and magnetic sensors CANbus supporting J1939 Vehicle Speedometer pulse counter interface
Software libraries/packages (Optional)	Real Time Passenger Information Package Fleet Management Package Vehicle Datalogger Package Vehicle Diagnostics Library Vehicle Geofencing Library Remote software download library Real Time Passenger Announcement System
Hardware Add Ons	Additional Contactless Card coupler Magnetic Stripe Card Reader Touch Panel Interface Screen High Visibility LED Interface Module Audio Playback Module

### KGIS FleetSMART Solution Overview

