# GASBOY

# FUEL POINT PLUS

## AUTOMATIC VEHICLE ID

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# C O N T E N T S

# FUEL POINT PLUS™

## AUTOMATIC VEHICLE IDENTIFICATION

### Unmatched Loyalty for Oil Companies, Maximum Savings for Fleets

Gasboy's Fuel Point PLUS automatic vehicle identification (AVI) system powers simple and secure refueling of millions of vehicles worldwide, with clear and measurable value to both oil companies and commercial fleets. A small and easy to install RFID unit next to the fuel inlet enables authorization when the nozzle is inserted into the inlet.

### Field Proven — Market Leader

Gasboy's expertise is unrivaled with over 7 million AVI vehicles and over 35,000 AVI stations. Gasboy's technology offers unmatched simplicity, security, and scalability.

- World's Leader
  Gasboy pioneered AVI fueling systems and still leads in market deployments and expertise. Its patented technology sets the standard regarding functionality and value.

- Loyalty Driver
  Using Fuel Point PLUS, value-added services can be offered to grow fleet loyalty, tying fueling to certain service stations. RFID fueling is quick and simple, and there is no need for cards.

- Simple and Seamless Deployment
  Quickly add Fuel Point PLUS to the forecourt as it wirelessly integrates with existing software and hardware. Fuel Point PLUS is ready for mass deployment.

- Significant Savings and Security for Fleets
  Gasboy's solution reduces misuse and fuel expenses as well as ensures better fuel management.
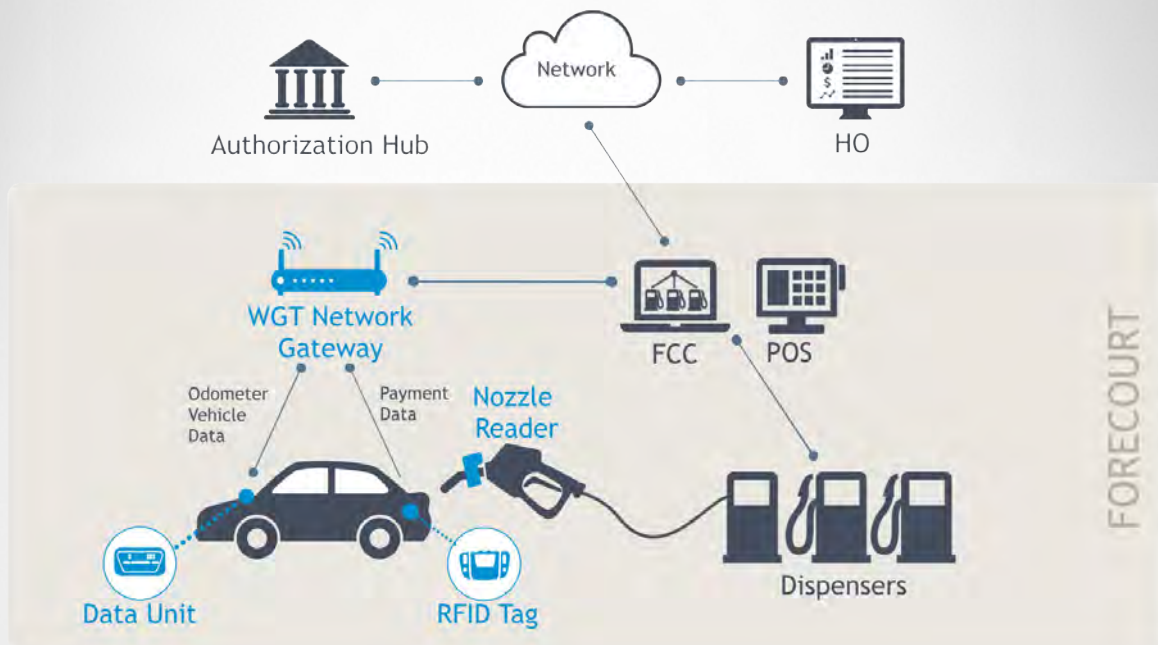
# BENEFITS

## For Oil Companies

Oil Companies use Fuel Point PLUS to offer the simplest refueling experience: put the nozzle in the vehicle, get authorization and begin fueling, without any of the hassle or security issues associated with fuel cards. Using Gasboy's AVI for fueling ensures loyalty and increases sales volume through repeat visits.

| | |
|---|---|
| LOYALTY | Increases loyalty and sales volume as it binds fleets to select fueling stations |
| SAVINGS | Brings clear value to their fleet customers – reducing fleet expenses and improving control |
| MANAGEMENT | Allows oil companies to offer value added fleet fuel management services to their customers, generating additional revenue and strengthening their brand image |
| INTEGRATION | Integrates fully with site management and network management systems |

## For Fleets

Fleets use Fuel Point PLUS to reduce costs associated with fraud and unnecessary fueling regardless of whether fueling occurs at their sites or in retail stations. Using AVI controls the distribution of fuel and significantly increases fleet efficiency.

| | |
|---|---|
| SAVINGS | Saves fuel expenses and reduces fraud by fueling only authorized vehicles |
| TRACKABLE | Easily controls, tracks and manages fleet consumption and refueling activity with alerts on irregular fueling or abnormal consumption patterns |
| MANAGEMENT | Obtains odometer and engine hour readings and additional vehicle information for effective fleet maintenance and safety |
| INTEGRATION | Fully integrates with Gasboy's homebase management solutions and fleet management solutions |

## Solution Description

Fuel Point PLUS is an automatic vehicle identification (AVI) solution where the vehicle itself is the means of authorization, recognized through a RFID tag installed next to the vehicle fuel inlet, identifying the vehicle and authorizing fueling. The result is fast refueling with no need for cash, card, or coupon payment.

Fuel Point PLUS ensures that fuel only goes to the authorized vehicle and charging the appropriate account. Removing the nozzle and trying to fuel another vehicle immediately suspends fueling activity.

Deployment is simple, as the vehicle elements are designed to take minutes to install, with simple station installation.

Fuel Point PLUS is superior to fleet card/fuel card payment as it creates clear value to both the fuel retailers as well as the fleet managers, by creating a tie-in to the station and a superior service experience.

Gasboy customers report significant savings using Fuel Point PLUS, which is suitable for any vehicle, cars, vans, buses, and trucks, as well as locomotives, boats, generators, construction and other heavy equipment.

**Advanced management and reporting**: Fuel Point PLUS is combined with advanced management and reporting capabilities, made available through Gasboy's Fleet Head Office solution.

**Simple Issuing**: the system enables on the spot issuing of the vehicle RFID tags using the hand-held programmer. Together with the short and effortless installation, Fuel Point PLUS enables quick mass deployment and minimal investment.

# THE COMPONENTS

## Passive RFID tags

Gasboy's tags consist of a secure chip that includes the encrypted identification/payment information. Tags are installed next to the fuel inlet and read by the nozzle reader when the fueling nozzle is inserted into the tank.

## Fuel Cube

An innovative, passive RFID vehicle identification tag, with no need for ring antennas around the fuel inlet. The fuel cube is ideal for light vehicles, enabling deployment in tens of thousands of vehicles and more. It contains a RFID chip and an antenna in one compact unit as well as includes sophisticated, patented security mechanisms, and data encryption.

## Fuel Ring

The Fuel Ring is Gasboy's high-runner, vehicle identification device for heavy vehicles, with a patented removal protection mechanism and a variety of ring types to fit any vehicle and fuel inlet.

## Wireless Gateway Terminal (WGT)

The Gasboy WGT covers the entire forecourt and connects Fuel Point PLUS components, securely forwarding the data to the Station Controller. Its mesh topology, as well as robust and reliable network, ensure the highest availability and resistance to interferences or obstacles.

## DataPass

The DataPass is an optional miniature transmitter that connects to the vehicle's onboard computer. Collected data includes odometer and engine hour readings, fuel consumption, driver behavior and diagnostic error codes. DataPass automatically uploads data while refueling, eliminating operational costs. Data uploads to the Fleet Head Office servers for analysis and reporting.

- Micro DataPass (uDP)— a plug-&-play unit for light and commercial vehicles that connects directly to the OBD-II connector.

- DataPass (DP)— for heavy vehicles and trucks, connects directly to the vehicle bus or a J1939/J1708 Deutsch 9-pin connector.

Micro DataPass

DataPass

## Nozzle Reader

The nano Nozzle Reader (nNR) reads Gasboy's RFID tags using contactless technology. It then uploads the encrypted data over Gasboy's wireless mesh network to the station's automation systems for refueling authorization. Designed to withstand harsh environments, this compact, self-contained unit fits directly onto the fueling nozzle and doesn't require wiring or an external power source. The reader comes with a universal installation kit that fits all common fueling nozzles and has a clean industrial design that seamlessly blends into the fuel dispenser. The nNR is a secure device, tamper-protected by a dedicated mechanism which detects unauthorized removal, deactivating the unit.

|  | RFID Tags | DataPass | WGT | nNR |
|---|---|---|---|---|
| Dimensions (HxWxD) cm | 4.2 x 2.3 x 0.78 (fuel cube) | 5 x 7 x 2 (DP) 2.2 x 4 x 1.7 (uDP) | 18 x 18.2 x 6.2 (outdoor box) 2.2 x 4 x 1.7 (integrated box) | 4 x 8.4 x 6 |
| Wireless | RFID ISO 18000-2:200 | 3dbm (2mW), IIEEE802.14.4 with proprietary mesh network | | 3dbm (2mW), IIEEE802.15.4 with proprietary mesh network RFID ISO 18000-2:200 |
| Frequencies | RFID, 108-131 kHz | 2.405-2.480 GHz | | 2.405-2.480 GHz RFID, 108-131 kHz |
| Interfaces | | J1939/J1708 (DP) OBD-II CAN & K-LINE (uDP) | LAN, RS485, RS232 | |
| Operating Voltage | | 9-32 VDC (DP ) 9-16 (uDP) | 12-28 VDC 100-240 VAC w/p.s. | 3.6 (Internal Battery Pack) |
| Operating Temperature | -40° to + 80°C (-40° to 176°F) | -40° to + 70°C (-40° to +158°F) | -40° to +55°C (-40° to +131°F) | -40° to + 60°C (-40° to + 140°F) |
| IP Rating | IP67 | | IP66 (NEMA 4X) | IP67 |
| Certifications | | FCC, CE, cETLus, E mark | FCC, CE, cETLus | FCC, CE, cLCus, ATEX |