

Control Where You Need it Most.

DFS Fusion® automation server version 3.



Visit Website

The Only Solution You Need.

Built on two decades of proven innovation, The DFS Fusion® automation server version 3 from Dover Fueling Solutions® (DFS) is a fully scalable solution which provides the trusted foundation your business needs today, with the flexibility to expand wherever the market takes you tomorrow.

Based on DFS' future-proof and flexible architecture, and combining modern hardware and software, the DFS Fusion server prepares your site for digital transformation, without compromising cybersecurity compliance.

The DFS Fusion server is at the core of automation capabilities. By connecting forecourt devices and enabling easy integration with other solutions, this server uses industry-standard interfaces that boost connectivity and protect your data while streamlining your entire operation.

Packed with advanced software technology, the DFS Fusion server is one small, but powerfully upgraded solution, that can replace a variety of on-site devices. It is the only advanced software solution you need.



Hardware Designed for More Power.

Designed and packed with performance-enhancing technology, the DFS Fusion server features faster speeds, better responsiveness and expanded connectivity options. It provides the control you expect from DFS with the easier access and serviceability you've asked us for.

Need to seamlessly connect your existing retail point-of-sale (POS) system with your forecourt? **No problem. We use industry standards for integration, such as IFSF FDC, to ensure smooth and secure connection.**

Want real-time visibility into information that will help you make smarter business decisions? **The DFS Fusion server can do that too, anytime and from anywhere.**

Need to control your site from an easy-to-use console application? **You've come to the right place.**

Control ...

Over Costs

The DFS Fusion server gives you the control you need to help reduce deployment and implementation costs. By providing better visibility over many of your current devices with one single tool, it helps reduce maintenance costs so there are fewer potential points of failure. You simply plug in the Fusion® forecourt controller (FCC), hook up your devices, and within minutes, you're connected and in control.

Over Data

With the DFS Fusion server's in-depth web-reporting capabilities, you can get better visibility over sales, operations, inventory and equipment, so you're better equipped to make smart business decisions. Its built-in remote accessibility means that you can always find the information you need no matter where you are or what time it is.

Over Your Future

The DFS Fusion server is designed to easily expand with growing business needs. The system is flexible and scalable and as your business needs continue to evolve, which means you can readily add software and hardware to keep up with your competition. The system enables digital transformation and seamlessly integrates with existing site solutions.



Over Complexity

By interfacing with a large number of forecourt devices, as well as POS systems from multiple vendors, the DFS Fusion server gives you one single point of control. This flexibility enables all key systems to speak the same language and provides you with a single interface to:

- Access dispensers from multiple vendors
- Gain visibility over tank management systems
- Update price signs
- Connect with POS systems
- Communicate with ERP and fleet management systems

Over Clutter

The DFS Fusion server provides all of this control in a single, streamlined solution developed specifically for the rugged demands of a petroleum-retail environment. With its solid-state construction, the DFS Fusion server is built to withstand extreme temperatures and dust. Packed with advanced technology, it's also built to handle your complete forecourt needs.

Over Security

The DFS Fusion server is built on a robust and modern technology stack aims to minimise your cybersecurity risk. DFS constantly issues product updates to ensure it adheres to industry best practices and complies with the most stringent security requirements, including conducting regular independent third party security assessments.

Key Features.



Secure

- Modern hardware and software architecture.
- Regular software updates with easy remote deployment.
- Secure access for local and remote users.
- Regular third party independent security audits.



Flexible & Scalable

- Interface with fuel dispensers, ATGs, price signs and point-of-sale (POS) systems from multiple vendors.
- Use of industry standards and modern APIs, for interface with 3rd party solutions.
- Modern and intuitive Web User Interface, prepared for access with mobile devices.
- Complete reporting package.
- Access to DFS' Fairbanks wetstock monitoring and DX Wetstock® services.
- Centralised management with Fusion Head Office.



Robust & Reliable

- Ruggedised hardware, completely solid state, including built in super capacitor bank for safe shutdown.
- Wide range of interface boards for forecourt devices.
- Microsoft® Windows 10 IoT Enterprise LTSC 2021 21H2 (Long Term Servicing Channel) for extended support.
- Wireless connectivity to dispensers using FCW Connect.



Optional Software Modules*

- Fuel console application.
- DFS Fusion® Prizma advanced POS.
- Local fleet management.
- Integrated ATG application (no need for ATG console).
- Integrated AVI (automatic vehicle identification).
- T-Media™ by Dover Fueling Solutions® (DFS) integration.
- PLLD for pressurized product lines.
- Integration with head-office solutions and 3rd party ERPs.

**subject to regional availability*



Retail Systems
& Payment

Technical Specification.

DFS Fusion® automation server version 3.



Hardware Platform.

CPU.

- Intel® IOTG Alder Lake-N Processor N97, QC, 12W.
- 2.0GHz, up to 3.6GHz, 6MB L2 cache.

Data Storage.

- 128GB flash drive.

Battery Backup.

- Internal super-capacitor for controlled shut-down in power fail situations.
- Internal temperature monitor.
- Internal voltage monitor.

Power.

- 24V AC 70W/100W external power brick.
- Rear mounted recessed power switch.

Temperature Range.

- Standard Operating Temperature: 0°C to 60°C.

Chassis and Cover.

- Aluminum chassis and cover.

Memory.

- 8GB DDR5 4800MHz.
- 100% Solid State (No moving parts).

Operating System.

- Microsoft® Windows 10 IoT Enterprise LTSC 2021 21H2 (Long Term Servicing Channel).

Connectivity.

- 2 x USB 3.2 Gen 2 + 2 x USB 3.2 Gen 1.
- COM1: RS-232/422/485, 0V/5V/12V.
- COM2: RS-232.
- HDMI up to 3840x 2160 @30Hz.
- DP up to 4096 x 2304 @60Hz.
- 2 x 2.5 GbE LAN with RJ-45.
- 2 x 24VDC out connector.
- 2 x slots for FIB (Forecourt Interface Boards).
- Optional powered USB-hub with 2x USB3.0 + 1x PUSB 24V + 2x PUSB 12V.

Display.

- Front mounted diagnostic/info display.

Physical Dimensions.

- 335mm (W) x 330mm (D) x 98mm (H).

Humidity Range.

- 10-90% relative humidity.

Forecourt Interface Boards (FIB).

FIB-UCL485 (P/N WU017553-0001).

- 2 ports CL supporting half-duplex communication over a 10 mA, 20 mA, 25 mA, 35 mA, or 45 mA current loop – 4 dispensers/8 fueling positions per port.
- 2 ports RS-485 supporting 2, 3 or 4-wire serial circuits – 4 dispensers/8 fueling positions per port.
- 2 x 8-pin for CL + 2 x 2-pin Phoenix connector.

FIB-NUP (P/N WM078010).

- 4 ports supporting: Nuovo Pignone (1 fueling position per port) and Logitron (1 dispenser/2 fueling positions per port).
- 4 x 5-pin Phoenix connector.

FIB-LON (P/N WM078009).

- 1 LON bus channel.
- 4 ports supporting 1 dispenser/2 fueling position per port.
- 4 x 3-pin Phoenix connector.
- Supports IFSF or RAW LON communications.

FIB-UDC (P/N WU018620-0001).

- 4 ports supporting 1 dispenser/2 fueling positions per port.
- 4 x 4-pin Phoenix connectors.
- Supports full-duplex communication using 10 mA / 20 mA current loop.

FIB PEC (P/N WU021189-0001).

- - 4 x CL ports (up to 4 devices/8 fueling positions) + 2x PUSB 12V.
- - 1 x PEC CL RETRON 80 dispenser per port.

FIB RS485-422 (P/N WU023433-0001).

- 4 x ports RS-485 (up to 16 devices/32 fueling positions) / 2 x RS-422 ports (up to 2 devices/4 fueling positions) supports Ljungmans CL.

FIB KA (P/N WM089066-0001).

- 4 ports supporting 1 dispenser / 1 fueling position per port.
- 4 x 4-pin Phoenix connectors.

GRIB 1-Wire (P/N W7003377).

- 16 ports supporting 1x1-wire iButton tag reader per port.
- 2 x 12-pin Phoenix connectors.

FIB CL4CH (P/N WM094826-0001).

- 4 x CL ports (up to 16 devices/32 fueling positions).



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