

# Control Where You Need it Most

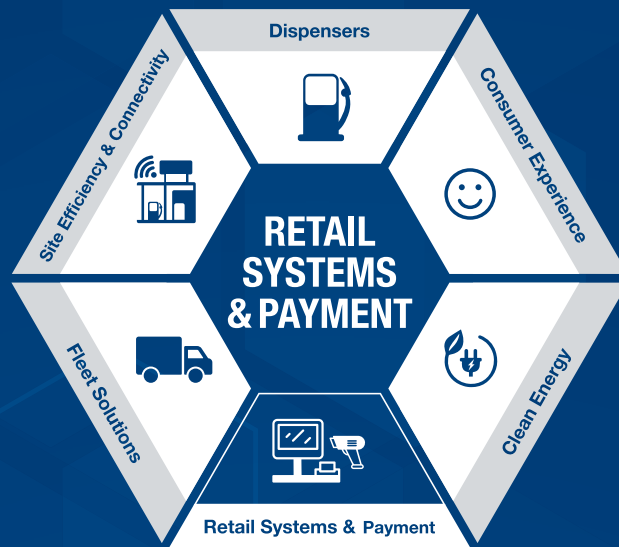


DFS Fusion®  
automation server version 3



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# The Only Solution You Need

The Dover Fueling Solutions® (DFS) Fusion automation server allows your dispensers, tank gauging systems, price signs and back-end reporting to more seamlessly interface with your point-of-sale (POS) and Enterprise Resource Planning (ERP) systems. Packed with advanced software technology, it's one small, but powerfully upgraded solution, that can replace a variety of on-site devices, such as a forecourt controller, an automatic tank gauge (ATG) system, petroleum-retail console, interface and distribution boxes, and third-party proprietary controllers. Additionally, this next generation forecourt system opens up the universe of IoT, allowing you to drive change forward with the DFS DX® connected solutions platform — a solution which harnesses cloud and advanced data analytics to deliver intelligent fueling and retail solutions and services for your business.

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# Hardware Designed for More Power

Designed and packed with performance-enhancing technology, the Fusion automation 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 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 Fusion automation 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 Fusion automation server gives you the control you need to help reduce deployment and implementation costs. By giving you better visibility over many of your current devices with one single tool, it helps to reduce maintenance costs so there are fewer potential points of failure. You simply plug in the Fusion forecourt controller, hook up your devices, and within minutes, you're connected and in control.

## CONTROL over data

With the Fusion automation 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. And 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.

## CONTROL over your future

The Fusion automation server is designed to easily expand with your growing business needs. The system is flexible and upgradeable and as your business needs continue to evolve, you can readily add software and hardware to keep up. The system comes IoT ready, which means it can provide easy access to DFS DX connected solutions platform to give your forecourt a revolutionary digital transformation.

## CONTROL over complexity

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

- access fuel dispensers from multiple vendors
- gain visibility over tank management systems
- update price signs
- connect with POS systems
- communicate with ERP and fleet management systems

## CONTROL over clutter

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

## CONTROL, CENTRALIZED

**THE ENTERPRISE-ENABLED REMOTE DIAGNOSTIC SOFTWARE CAN BE INCLUDED IN YOUR FUSION AUTOMATION SERVER WARRANTY. IT MEANS YOU CAN GET:**

- 24/7 REMOTE SUPPORT FOR DISPENSERS, SYSTEMS, AND OTHER TECHNOLOGY
- DEVICE MONITORING AND REMOTE PROBLEM RESOLUTION
- ESCALATION NOTIFICATIONS
- INCREASED SECURITY FOR YOUR FORECOURT AND NETWORK
- DATA MANAGEMENT
- ACCESS TO WAYNE FUSION HEAD OFFICE

# The Latest Generation Fusion Forecourt System



The latest generation of the Fusion automation server is configured for easier accessibility and serviceability. With 5 status LED lights, running and managing the system becomes easier and more straightforward. The front-mounted display allows you to see alerts and diagnostic information clearly. Add in the fact that there are no moving parts behind the face, and you've got a robust and hardened solution to address your current needs and adapt as those demands evolve.

But perhaps the most compelling benefit of a Fusion automation server is that it's connected to the experience, expertise and support of DFS. Your Fusion automation server can be supported with our enterprise remote-diagnostics software, which monitors forecourt dispenser equipment around the clock and helps proactively identify and resolve problems as they arise.

# One Platform for All Your Needs, with Dedicated ATG Application

The new generation Fusion automation server is available with extensive features included in the base configuration, which address the needs of most site environments. However, as your business grows and evolves, you may want to enhance the functionality of your Fusion system with additional features that can be easily added as optional software modules.

DFS delivers a complete, integrated ATG and forecourt solution that also offers great flexibility. It provides a variety of hardware and software options that can be included from the start, or retrofitted remotely to meet your changing needs. It's also designed to integrate seamlessly with the DFS Fusion automation server for full visibility into all aspects of operations.

- One single point of control for hardware and software applications
- In-depth reporting capabilities providing enterprise-level visibility
- Connectivity from anywhere, at any time, through secure remote access
- Remote management for unattended hours
- Interactive access for remote training, instruction and troubleshooting
- Enables remote accessibility and upgradeability from anywhere globally

**Note:** Option not available in North America.



# Features

## BASE

### Secure

- Modern hardware and software architecture
- Regular software updates with easy remote deployment
- Secure access for local and remote users

### 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 the DFS DX Connection Solutions Platform
- Centralized management with Fusion Head Office

### Robust & Reliable

- Ruggedized 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

- 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



# Data Sheet / DFS Fusion automation server V3

Control Where you Need it Most

<div><b>Hardware Platform</b></div> <div><b>CPU</b><ul style="list-style-type: none"><li>Intel® IOTG Alder Lake-N Processor N97, QC, 12W</li><li>2.0GHz, up to 3.6GHz, 6MB L2 cache</li></ul></div> <div><b>Data Storage</b><ul style="list-style-type: none"><li>128GB flash drive</li></ul></div> <div><b>Battery Backup</b><ul style="list-style-type: none"><li>Internal super-capacitor for controlled shut-down in power fail situations</li><li>Internal temperature monitor</li><li>Internal voltage monitor</li></ul></div> <div><b>Power</b><ul style="list-style-type: none"><li>24V AC 70W/100W external power brick</li><li>Rear mounted recessed power switch</li></ul></div> <div><b>Temperature Range</b><ul style="list-style-type: none"><li>Standard Operating Temperature: 0°C to 60°C</li></ul></div> <div><b>Chassis and Cover</b><ul style="list-style-type: none"><li>Aluminum chassis and cover</li></ul></div> <div><b>Memory</b><ul style="list-style-type: none"><li>8GB DDR5 4800MHz</li><li>100% Solid State (No moving parts)</li></ul></div>	<div><b>Operating System</b><ul style="list-style-type: none"><li>Microsoft® Windows 10 IoT Enterprise LTSC 2021 21H2 (Long Term Servicing Channel)</li></ul></div> <div><b>Connectivity</b><ul style="list-style-type: none"><li>2 x USB 3.2 Gen 2 + 2 x USB 3.2 Gen 1</li><li>COM1: RS-232/422/485, 0V/5V/12V</li><li>COM2: RS-232</li><li>HDMI up to 3840 x 2160 @30Hz</li><li>DP up to 4096 x 2304 @60Hz</li><li>2 x 2.5 GbE LAN with RJ-45</li><li>2 x 24VDC out connector</li><li>2 x slots for FIB (Forecourt Interface Boards)</li><li>Optional powered USB-hub with 2x USB3.0 + 1x PUSB 24V + 2x PUSB 12V</li></ul></div> <div><b>Display</b><ul style="list-style-type: none"><li>Front mounted diagnostic/info display</li></ul></div> <div><b>Physical Dimensions</b><ul style="list-style-type: none"><li>335mm (W) x 330mm (D) x 98mm (H)</li></ul></div> <div><b>Humidity Range</b><ul style="list-style-type: none"><li>10-90% relative humidity</li></ul></div>
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# Data Sheet / DFS Fusion automation server V3

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### Forecourt Interface

**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-UCL485UL (P/N WU017553-0002)**

- 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
- RJ45 connectors (for use with DSB-Data Safety Box)

**FIB-NUP (P/N WM078010)**

- 4 ports supporting:
  - Nuovo Pignone (1 fueling position per port)
  - 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)**

- Connects dispensers using the PEC CL RETRON 80 protocol. A maximum of 4 dispensers (up to 8 fueling points) can be connected per FIB
- - 4 x CL ports (up to 4 devices/8 fueling positions)  
+ 2x PUSB 12V

**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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