

WDNU

Wireless Data Network Unit

Robust, cost-effective WiFi and cellular access to aircraft data, globally*

A proven solution for seamlessly and securely connecting aircraft data to ground support networks and staff

The Wireless Data Network Unit (WDNU) connects your aircraft data, globally, to the ground infrastructure network or directly to maintenance through cellular or Wi-Fi connectivity*. GE's WDNU is designed as part of an overall Integrated Vehicle Health Management (IVHM) system that includes GE's Aircraft Health Management Unit (AHMU) and Ground Services Network (GSN).

End-To-End Solution

GE's WDNU is part of an end-to-end IVHM solution that collects and analyzes aircraft operation data for more informed maintenance actions. With GE's IVHM aircraft issues are identified in a fast, accurate, easily accessible, and concise manner. WDNU is providing connectivity to over 400 aircraft across seven aircraft types.



Overview

WDNU Leading Characteristics

- Aircraft side Wi-Fi and data access
- Supports up to 12 wireless users
- Worldwide cellular coverage for data access
- Upgrade software in the field and on the aircraft
- Robust security architecture
- Lightweight at 1.5 lbs
- Direct mount
- Comprehensive built-in test for self-diagnostics
- Environmental DO-160 F/G

WDNU Leading Characteristics

- 802.11a/b/g/n WiFi
- Cellular 2G, 3G, 4G (HSPA+, LTE mid-2020)
- 802.3 Ethernet
- RS-232
- Discrete I/O

*Cellular service and/or WiFi-enabled device required

Functions

- Secure data transfer (download and upload)
- Wireless Data Access Point
- Built in wireless router

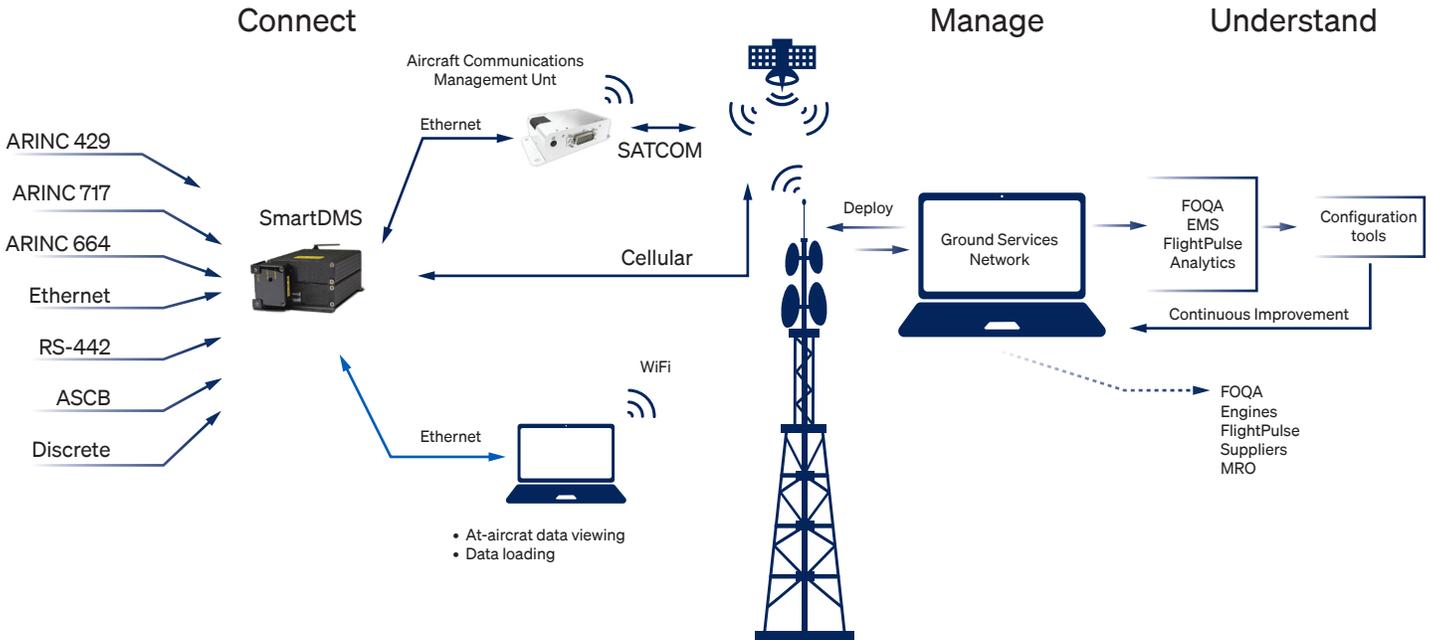
Software

- Meets RTCA DO-178B, DAL E design criteria
- LINUX® based operating system

Ground Support Equipment

- The WDNU Wi-Fi allows wireless aircraft side review of live and recorded data via web browsers
- Global cellular coverage* connecting your aircraft data to your maintenance staff wherever you may be in the world

GE Integrated Vehicle Health Management (IVHM) System



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