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

*Cellular service and/or Wi-Fi enabled device required

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.

400+ A/C across 7 aircraft types
**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

**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

**Supported Interfaces**

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

**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**

**Connect**

- Aircraft Communication Management Unit
- Ethernet
- SATCOM
- Cellular
- Wireless Data Network Unit
- Wifi
- OMS

**At-aircraft data viewing**

**Data loading**

**Manage**

- Deploy
- Ground Service Network
- FOQA
- EMS
- FlightPulse
- Configuration Tools

**Understand**

- Continuous Improvement
- FOQA
- Engines
- FlightPulse
- Suppliers
- MRO

Learn more at geaviation.com/connectedaircraft

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