Lufthansa Technik is offering a new aviation-qualified high-performance Wireless Access Point (WAP) based on the latest developments from Aruba Networks. Optimized for the extremely high-density characteristics common in aircraft cabin environments and complying with the most stringent aviation security constraints, the new WAP offers ultra-fast data communications. The device can be easily configured by airlines for the requirements of their IFE and connectivity systems.

As the first aircraft access point available on the aviation market based on the Gigabit Wireless Standard (802.11ac, 1.3 Gbps) it allows faster video streaming and on-board Internet connections supporting more mobile devices on two independent radios. The device’s airtight housing hosts optimized internal antennas (3 x 3 MIMO antenna array) to ease installation and relieving operators of the need for single antenna adjustments.

The new WAP’s technology makes it especially suited for both the newest and future aircraft generations such as the Boeing 787 and Airbus A350. The new Lufthansa Technik Wireless Access Point will be qualified and available in the first quarter of 2014.

Possible applications

- High speed Wi-Fi for in-flight web browsing
- Multimedia streaming
- Real-time communications
- Point-of-sale applications
- Passenger gaming
- Internet-based services

WAP – Wireless Access Point

High speed hot spot
High speed hot spot

Customer advantages

- Aviation qualified ruggedized access point
- Powered by Aruba Networks
- Simultaneous dual radio operation (802.11b/g/n + 802.11n/a/ac)
- First aircraft access point with 802.11ac standard (1.3 Gbps)
- Backwards compatible to 802.11a/b/g/n standards
- Wireless Intrusion Detection/Prevention System (WIDS/WIPS)
- Smaller than ARINC 763 and smaller than next ARINC 628
- Qualified to DO-160G

Short specification

- Full control by machine to machine (M2M) command line interface
- ARINC 836 Modular Rack mountable
- Input/Output discretes for power and radios
- Power: 115 V AC/200 mA, variable frequency 360-800 Hz
  (28 V DC available on request)
- Dimensions (L x W x H): 230 x 174 x 65 mm
- Weight: 1.8 kg