



NEW HELICOPTER FLIGHT DATA MONITORING DEVICE CERTIFIED BY BELL

News / Business aviation, Manufacturer



Bell announced the Supplemental Type Certificate for the Installation of QuantiFLY, a new aircraft communication unit (ACU) powered by Truth Data, offering a true low-cost, lightweight, and fully automatic flight data monitoring (FDM) solution currently available for the Bell 407GX_i and Bell 429. Bell developed QuantiFLY with Appareo and FDM analytics to enable operators to affordably use the data from QuantiFLY to be actionable and drive safety.

The executive vice president, Innovation and Commercial Business, Michael Tracker commented: “As innovators, Bell is continuously exploring advanced solutions to provide customers with smart helicopter technology to enhance their flight experience. The introduction of Bell’s QuantiFLY will offer greater visibility into flight operations while integrating seamlessly with Bell’s current connected fleet offerings for our commercial aircraft.”

Bell selected Appareo Systems for connectivity hardware based on its proven track record for both world-wide cellular telematics and aircraft data monitoring. The device utilizes cellular (4G LTE / 3G GSM) on the ground data transmission to offboard aircraft flight parameter and maintenance data via cloud for processing and analytics. Bell worked with

Microsoft to build on its Azure cloud infrastructure to route data securely around the world
The data is then uploaded to Bell's [MissionLinkTM](#), an innovative off-board data platform that delivers intuitive analysis to customers.

Bell collaborated with Truth Data, a proven leader in rotorcraft flight data monitoring, to provide a scalable flight data analysis platform and benchmarking capabilities to better identify safety issues and reduce operator risks. Coupled with QuantiFLY, this provides a completely automatic FDM service. Network regulatory and certifications include Verizon Network, Vodafone, CE, IC, FCC, RCM.

QuantiFLY is offered as an aftermarket kit forward or retrofittable for legacy and new aircraft, analog and digital through Aeronautical Accessories. QuantiFLY Equipment Features:

- Dual-core ARM cortex A9 processors
- 512 MB DDR3L RAM
- 32 GB eMMC standard storage
- LTE CAT 4 cellular radio with 3G/2G fallback
- Bidirectional communication
- 100BASE-TX 10/100 ethernet
- Discrete I/O
- RS-422
- ARINC 429 RX (up to 10 Hz)
- Inertial measurement unit & GPS
- Secure boot
- Low power mode
- Ultra-Low power sleep mode
- Weights less than two pounds

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