



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number: ST04354AT

This certificate issued to: Archeion Holdings, L.L.C.
9941 West Jessamine Street
Miami, FL 33157

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.

Original Product – Type Certificate Number: A13NM Make: Bombardier
Model: DHC-8-200

Description of Type Design Change: Installation of an Avionics, Inc. avWiFi wireless router system on aircraft listed on Master Data List 150137-MDL, Revision C, dated February 2, 2017 or later FAA approved revisions.

The system provides 3 modes of operation installations: Secure device to device Wi-Fi Wireless connectivity in the cabin during all phases of flight on the aircraft (CWL Mode), or WiFi connectivity to the Gate Terminal WiFi Router on the ground via an external antenna (TWLU Mode), or both (TWLU and CWLU Mode).

Cabin WiFi CWLU installation includes a flight deck Wi-Fi On/Off guarded toggle switch.

The avWiFi unit is installed in one of these location configurations: On the avRDC or avRDC MAX Quick Access Recorder (QAR), or near the MK-II or MK-III miniQAR, or in the cabin, or in the Avionics Bay.

Limitations and Conditions: “FAA approved Airplane Flight Manual Supplement for Archeion Holdings LLC, 150137-AFMS, Revision IR, dated February 21, 2017, or later FAA approved revisions, is a required part of this STC. For maintenance and inspections of an avWiFi System, apply Archeion Holdings Instructions for Continued Airworthiness 150137-ICA Revision A, dated May 16, 2016, or later FAA accepted revisions...”

(See continuation sheet 3 of 3)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, and revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of Application: November 19, 2015

Date Reissued:

Date of Issuance: February 22, 2017

Date Amended:

By Direction of the Administrator

Signature

Title Christina M. Underwood, Manager
Atlanta Aircraft Certification Office

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120)



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INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Aircraft Certification Office of the transfer of this Supplemental Type Certificate. The FAA will reissue the certificate in the name of the transferee and forward it to him.

Transfer Endorsement

Transfer the ownership of Supplemental Type Certificate Number:

To (Name and address of transferee)

From (Name and address of grantor)

Extent of Authority (if licensing agreement):

Date of transfer:

Signature of grantor: _____

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Supplemental Type Certificate

(Continuation Sheet)

Number: ST04354AT

Date of Issuance: February 21, 2017

Date Amended:

Limitations and Conditions (Continued): "... This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated, unless it is determined by the installer that the interrelationship between this change and any other previously approved modifications, including integration to other Archeion STC's, will produce no adverse effect upon the airworthiness of that airplane. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission."

Certification Basis: Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for parts changed or affected by the change since the reference date of application, November 19, 2015, is based upon 14 CFR Part 25 as amended by Amendment 25-141. Based on Order 8110.48, the certification basis for this modification was determined to be:

Regulations at the latest amendment 25-0 through 25-141

- §§25.21 (a)(1), Amdt. 25-140
§§25.301, Amdt. 25-23
§§25.303, Amdt. 25-23
§§25.305 (a)(b), Amdt. 25-86
§§25.307 (a), Amdt. 25-139
§§25.365 (a)(b)(d), Amdt. 25-87
§§25.561, Amdt. 25-91
§§25.571 (a)(b), Amdt. 25-132
§§25.581, Amdt. 25-23
§§25.601, Orig.
§§25.603, Amdt. 25-46
§§25.605 (a), Amdt. 25-46
§§25.607, Amdt. 25-23
§§25.609, Orig.
§§25.611, Amdt. 25-123
§§25.613, Amdt. 25-112
§§25.631, Amdt. 25-23
§§25.771 (a), Amdt. 25-4
§§25.787 (a)(b), Amdt. 25-139
§§25.789 (a), Amdt. 25-46
§§25.853 (a), Amdt. 25-116
§§25.869 (a)(1,3), Amdt. 25-123
§§25.899 (a)(1,3)(b), Amdt. 25-123
§§25.981 (a)(3)(d), Amdt. 25-125
§§25.1301 (a)(1,2,3,4), Amdt. 25-123
§§25.1309 (a)(b)(d)(e)(f), Amdt. 25-123
§§25.1351 (a)(1,2), Amdt. 25-72
§§25.1353 (a)(c), Amdt. 25-123
§§25.1357 (a)(c), Amdt. 25-123
§§25.1360 (a), Amdt. 25-123
§§25.1363 (a)(b), Orig.
§§25.1419 (a), Amdt. 25-129
§§25.1431 (a)(c)(d), Amdt. 25-113
§§25.1529, Amdt. 25-54
§§25.1541, Orig.
§§25.1581, Amdt. 25-72
§§25.1585 (a)(b), Amdt. 25-105
Appendix H

14 CFR Part 36 regulations: Based on 14 CFR §§21.93(b)(1)(Amdt 21-97), No Acoustical Change has been found for the 14 CFR Part 36 noise levels regulations.

14 CFR Part 26 regulations: Based on 14 CFR § 21.101(g), applicable provisions of 14 CFR Part 26 are included in the certification basis. For any future 14 CFR 26 amendments, the holder of this STC must demonstrate compliance with the applicable sections; as of the issuance date of this STC, compliance has been found for the following regulations: 14 CFR §§ 26.11 (Amdt 26-0), §§ 26.47 (Amdt 26-1).

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Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).