*United States of America*
*Department of Transportation*
*Federal Aviation Administration*

# *Supplemental Type Certificate*

*Number:* ST11387DS

*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* Title14 of the Code of Federal Regulations.

*Original Product*
*Type Certificate Number:* T00001SE

*Make:* Boeing

*Model:* 777-200 Series, 777-200LR Series, 777-300 Series, 777-300ER Series.

*Description of Type Design Change:*

Installation of an Avionica avWiFi System with Cybersecurity Compliance and Hosted Applications Functionality in accordance with Archeion Holdings, LLC Master Data List, Doc. No. 231720-MDL, Rev C, dated July 28, 2025, or later FAA-approved revision. The FAA-Approved Airplane Flight Manual Supplement (AFMS), Doc. No. 231720-AFMS, Rev IR, dated September 25, 2024, or later FAA-approved revision, must be incorporated into the Airplane Flight Manual when required by the applicable installation configuration. Refer to the Master Data List (Doc. No. 231720-MDL) for configuration-specific applicability; certain installations may not require incorporation of the AFMS.

*Limitations and Conditions:*

The installer must determine whether this design change is compatible with previously approved modifications. If the holder agrees to permit another person to use this certificate to alter the product, the holder must give the other person written evidence of that permission. See continuation on Page 3 of 4.

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

*Date of Application:* August 31, 2023 *Date Reissued:* October 2, 2024

*Date of Issuance:* September 30, 2024 *Date Amended:* August 8, 2025

*By Direction of the Administrator*

*Signature:* Robert H. Wilcox

Robert H. Wilcox
*Title:* ODA Administrator, ODA-834704-SW

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:* _____

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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# *Supplemental Type Certificate*

*(Continuation Sheet)*

*Number:* ST11387DS

## *Limitations and Conditions (continued):*

In addition to the basic aircraft maintenance manuals, the aircraft must be maintained in accordance with the Instructions for Continued Airworthiness (ICA) Document No. 231720-ICA, Rev C, dated July 28, 2025, or later FAA accepted revision. Airworthiness Limitations inspections per 14 CFR Part 25, Appendix H are contained in the ICA.

For an Avionica avWiFi System Installed in accordance with Section 2.0 of Master Data List 231720-MDL and Section 3.0 of the Customer Data List 231720-CDL, the aircraft must be maintained in accordance with the Instructions for Continued Airworthiness (ICA) Document No. 231725-ICA, Rev B, dated September 7, 2024, or later FAA accepted revision. Airworthiness Limitations inspections per 14 CFR Part 25, Appendix H are contained in the ICA.

The FAA has reviewed the applicant's assessment showing that this modification does not impact the existing electrical wiring interconnection system instructions for continued airworthiness (EWIS ICA) and found that no additional EWIS ICA tasks are required.

Special Conditions with respect to the following subjects apply to this STC:

- FAA-2021-0582-F, effective on July 7, 2021, addressed Aircraft Electronic System Security Protection from Unauthorized External Access.
- FAA-2021-0583-F, effective on July 7, 2021, addressed Aircraft Electronic System Security Protection from Unauthorized Internal Access.

Refer to limitations in Airworthiness Directive AD 2014-20-06 and Policy Statement PS-ANM-25-13; this WiFi installation is not compatible with B777 aircraft equipped with Honeywell Phase Ill CDS displays, since WiFi can cause interference with these displays.

The operator is responsible for ensuring the aircraft equipment configuration remains qualified as PED tolerant. Changes to the qualified aircraft configuration may affect the aircraft's PED Tolerance qualification. Refer to the Aircraft Equipment Compatibility List (AECL), Porter Aerospace Doc. No. 21-2075-05, Revision A, dated September 17, 2024, or later FAA approved revision.

Depending on the functions desired, the following may need to be installed as a prerequisite:

- An Avionica Quick Access Recorder is required for the Aircraft Interface Device (AID) and the Staged Data Loader Function Hosted Applications.
- An Avionica Cellular Module is required for Secured Internet Access through Cellular Gateway.
- An Avionica satLINK MAX is required for the VoIP Exchange Hosted Application.
- An Inmarsat SATCOM System is required for Secured Internet Access through SATCOM Gateway.

Any alteration of this certificate and/or the Type Certificate Data Sheet is punishable by a fine 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 Title 14 of the Code of Federal Regulations, part 21, section 21.47 (14 CFR 21.47). A transfer must be endorsed as provided on the reverse hereof. A Type Certificate holder who allows a person to use the Type Certificate to manufacture a new aircraft, aircraft engine, or propeller must provide that person with a written licensing agreement acceptable to the FAA. (Ref. 14 CFR 21.55).

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# *Supplemental Type Certificate*

*(Continuation Sheet)*

*Number:* ST11387DS

## *Certification Basis:*

The type certification basis for airplanes for parts not changed or not affected by this change is shown on TCDS T00001SE, Revision 47, dated August 14, 2024.

The certification basis for parts changed or affected by this change since the reference date of this application, August 31, 2023, is based upon Part 25 as amended through Amendment 25-148 and Part 26 as amended through Amendment 26-7, and as listed in Document No. 231720-MCL Master Compliance Checklist.

Based on 14 CFR Sections 21.115 and 21.101, and FAA policy for non-significant changes in FAA Order 8110.48A, the certification basis for the aircraft to be modified by the STC design data are as follows:

**Regulations at the latest amendment 25-0 through 25-148 used for this modification:**

14 CFR 25.29 (b); 25.301; 25.303; 25.305(a)(b); 25.307(a); 25.561(c)(d); 25.601; 25.603; 25.605(a); 25.607; 25.609; 25.611(a); 25.613; 25.771(a); 25.773(a); 25.777(a)(c); 25.899(b)(1); 25.981(a)(3); 25.1301(a)(1)(2)(3)(4); 25.1309(a)(b)(d)(e); 25.1351(a)(1)(2); 25.1353(a)(c); 25.1357(a)(c); 25.1360(a); 25.1381; 25.1431(a)(b)(c); 25.1501; 25.1529; 25.1541; 25.1581; 25.1583(h); 25.1585(a)(b);

**Regulations at an intermediate amendment:**

14 CFR 25.869(a)(1)(4); Amdt. 25-113

**Regulations at the latest amendment 26-0 through 26-7:**

14 CFR 26.11(c)

For regulations identified at an intermediate level, the determination has been made that compliance to a later amendment level would not contribute materially to the level of safety of the existing design approval.

**14 CFR Part 34 Regulations:**

This modification has been determined to not be an emissions change in accordance with 14 CFR 21.93(c).

**14 CFR Part 36 Regulations:**

This modification has been determined to be a no acoustic change in accordance with 14 CFR 21.93(b).

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