United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number: **ST04670CH**

This certificate issued to: Premier Air Center, LLC
2 Airline Court
East Alton, IL 62024

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: A56NM

Make: Embraer

Model: ERJ 170-100 STD, ERJ 170-100 LR, ERJ 170-100 SU, ERJ 170-100 SE

Description of Type Design Change:

Installation of Gogo AVANCE L5 Broadband System in accordance with West Star Aviation Master Data List, Doc. No. A23339L-391, Revision D, dated July 14, 2025, or later FAA-approved revisions.

Limitations and Conditions:

1) This STC is applicable to all serial numbers for this Make-Model.
2) The installer must determine whether this design change is compatible with previously approved modifications.
3) FAA Approved Airplane Flight Manual Supplement, West Star Aviation Doc. No. A23339M-405, Revision IR, approved July 22, 2025, or later FAA approved revision is required on board the modified aircraft.
4) FAA Approved Instructions for Continued Airworthiness – Airworthiness Limitations, Chapter 10 of West Star Aviation Doc. No. A23339P-406, Revision I/R, approved July 22, 2025, or later FAA approved revision is a required part of this STC.
5) If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.
6) This modification requires that the aircraft be shown to be electromagnetically compatible with transmitting portable electronic devices that utilize wireless data technologies.

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: April 17, 2023

Date of Issuance: July 22, 2025

Date Reissued:

Date Amended:

By Direction of the Administrator

Signature: _____
Brenda L. Litchfield
ODA Administrator

Title: Envoy Aerospace, LLC ODA-831240-CE

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: **ST04670CH**

Date of Issuance: July 22, 2025

Certification Basis:

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for design changes that are identified as not significant in FAA Order 8110.48A, the certification basis for the Embraer ERJ 170-100 STD, ERJ 170-100 LR, ERJ 170-100 SU, ERJ 170-100 SE aircraft is as follows:

a. The type certification basis for the Embraer ERJ 170-100 STD, ERJ 170-100 LR, ERJ 170-100 SU, ERJ 170-100 SE aircraft is shown on TCDS A56NM for parts not changed or affected by the change.

b. This certification basis for parts changed or affected by the change since the reference date of application is based upon 14 CFR Part 25 as amended by Amendment 25-109 as follows:

Applicable regulations at the latest amendment 25-0 through 25-109

§ 25.29(a)(b)
§ 25.111(a)(b)(c)(d)
§ 25.113(a)(b)
§ 25.115(a)(b)(c)
§ 25.117
§ 25.119(a)(b)
§ 25.121(a)(b)(c)(d)
§ 25.123(a)(b)(c)
§ 25.147(a)(c)(d)
§ 25.177(c)(d)
§ 25.251(a)(b)(c)(d)(e)
§ 25.301(a)(b)
§ 25.303
§ 25.305(a)(b)
§ 25.307(a)
§ 25.321(a)(b)
§ 25.331(a)(b)(c)
§ 25.335(a)(b)(c)(d)
§ 25.341(a)
§ 25.349(a)(b)
§ 25.351(a)(b)
§ 25.365(a)(b)(c)(d)
§ 25.561(c)(d)
§ 25.571(a)(b)(e)(1)
§ 25.581(a)(b)(c)
§ 25.601
§ 25.603(a)(b)(c)
§ 25.605(a)
§ 25.607(a)(b)(c)
§ 25.609(a)(b)
§ 25.611
§ 25.613(a)(b)(c)
§ 25.619(a)(b)(c)
§ 25.625(a)
§ 25.773(a)(2)
§ 25.777(a)(c)
§ 25.789(a)
§ 25.981(a)(3)
§ 25.1301(a)(b)(c)(d)
§ 25.1307(c)
§ 25.1309(a)(b)(c)(d)(e)(f)(g)
§ 25.1322(d)
§ 25.1351(a)(1)
§ 25.1353(a)(b)
§ 25.1357(a)(c)
§ 25.1381(a)(b)
§ 25.1419(a)
§ 25.1431(a)(b)(c)
§ 25.1501(a)(b)
§ 25.1519
§ 25.1523(a)(b)
§ 25.1529
§ 25.1581(a)(b)(d)
§ 25.1583(c)
§ 25.1585(a)
§ 25.1729

Applicable 14 CFR Part 25 regulations at other amendment levels

§ 25.869(a)(4) [Amdt 25-113].

Applicable 14 CFR Part 26 regulations at the latest amendment 26-0 through 26-7

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 Part 26 amendments, the holder of this STC must demonstrate compliance with the applicable sections. As of the latest amendment date of this STC, compliance has been found for the following regulations: 14 CFR § 26.11(c) [Amdt. No. 26-7]; § 26.47(c) [Amdt. No. 26-7].

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Certification Basis: (continued)

Equivalent Level of Safety

ELOS Memorandum # TC0056IB-T-HES-13; 14CFR Part 25 § 25.331(c)(2) Pitch Maneuver Conditions.

ELOS Memorandum # ENV23012-25.251: Equivalent Level of Safety (ELOS) Finding for Vibration/Buffeting Criteria for Externally Mounted Installations on Model Embraer ERJ 170-100 STD, ERJ 170-100 LR, ERJ 170-100-SU, ERJ 170-100 SE, ENV23012-251ERJ 170-200 STD, ERJ 170-200 LR, and ERJ 170-200 SU airplanes.

Special Conditions

25-684-SC, Special Conditions: Embraer, Model ERJ 170-200 LR Airplane; Non-Rechargeable Lithium Battery Installation [Docket No. FAA-2017-0374].

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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).