

 Northern Avionics v.le dell'Aviazione, 65 20138 – Milano PART-145 App. IT.145.0004 PART-21G App. IT.21G.0041 PART-21J App. EASA.21J.223	MOD DESCRIPTION BROCHURE	
	Ref. DOC. Various	Rev.0

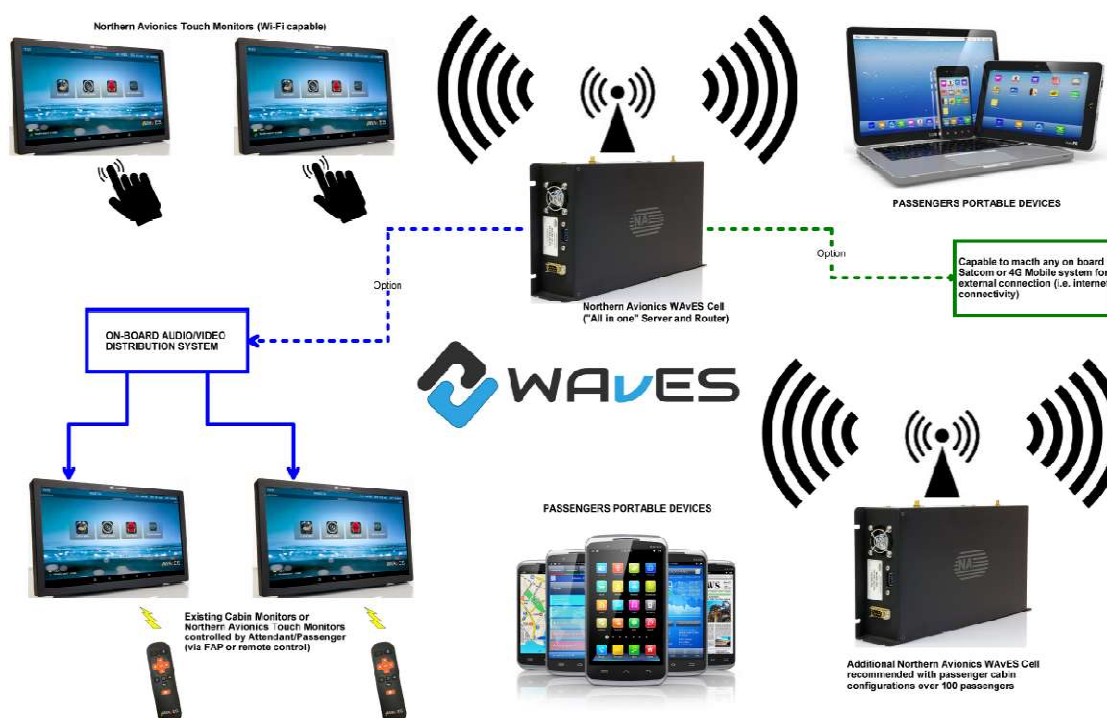
PROJECT No. Various References for WAvES “Wireless Avionics Entertainment System”

PROJECT TYPE		APPLICABILITY:
STC	☒ Minor Change ☐	

- **B767 series**
- **B757 series**
- **B737 series**
- **A330 series**
- **AW109SP**

WAvES is a versatile and modular entertainment system to be easily installed on a wide range of aircraft. Available as a standalone system or integrated with cabin services or as in-seat entertainment for every type of seat and cabin class.

WAvES Cell is the core unit of the system, compliant with DO-160G requirements and already certified and in use over various type of aircraft with “airline” or VIP configuration.



Based on simple and user friendly software, the graphic can be easily customized to match customer preferences.

WAvES can be considered the fastest way to get Wi-Fi entertainment onboard.

For more information you can have a look at the System Description Brochure or contact:

NORTHERN AVIONICS s.r.l.

northern@northern-avionics.com

Tel. 0270209972

SUPPLEMENTAL TYPE CERTIFICATE

10058849

This Supplemental Type Certificate is issued by EASA, acting in accordance with Regulation (EC) No. 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation and in accordance with Commission Regulation (EU) No. 748/2012 to:

NORTHERN AVIONICS S.R.L.

**VIALE DELL' AVIAZIONE 65
20138 MILANO
ITALY**

and certifies that the change in the type design for the product listed below with the limitations and conditions specified meets the applicable Type Certification Basis and environmental protection requirements when operated within the conditions and limitations specified below:

Original Type Certificate Number: EASA.IM.A.035

Type Certificate Holder: THE BOEING COMPANY

Type: 767

Model: 767-200, 767-300, 767-400ER

Description of Design Change:

WiFi WAvES installation.

EASA Certification Basis:

The Certification Basis for the original product as amended by the following additional or alternative airworthiness requirements:

The following paragraph(s) at a later amendment: See Doc. CCL-NAV0521 Rev.9.

The requirements for environmental protection and the associated certified noise and/ or emissions levels of the original product are unchanged and remain applicable to this certificate/ approval.

See Continuation Sheet(s)

For the European Aviation Safety Agency

Date of Issue: 20 July 2016



Laurent GRUZ
Deputy Head of
Large Aeroplanes Department

10043455

SUPPLEMENTAL TYPE CERTIFICATE - 10058849 - NORTHERN AVIONICS S.R.L. - 302913

SUPPLEMENTAL TYPE CERTIFICATE

10078133

This Certificate/Approval is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation and in accordance with Commission Regulation (EU) No. 748/2012 to

NORTHERN AVIONICS S.R.L.

VIALE DELL' AVIAZIONE 65
20138 MILANO
ITALY

EASA.21J.223

and certifies that the change in the type design for the product listed below with the limitations and conditions specified meets the applicable Type Certification Basis and, if applicable, environmental protection requirements when operated within the conditions and limitations specified below:

Type Certificate Number: EASA.IM.A.205

Type Certificate Holder: THE BOEING COMPANY

Type: 757

Model: 757-200, 757-300

Description of Design Change:

Wi-Fi WAvES installation

Installation of Wifi LAN for IFE on demand content distribution to Portable Electronic Devices.

EASA Certification Basis:

The Certification Basis for the original product as amended by the following additional or alternative airworthiness requirements:

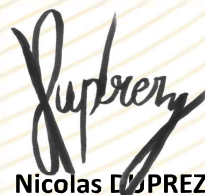
- The following paragraph(s) at a later amendment: CS-25 Initial Issue, paragraphs 25.301, 25.303, 25.305, 25.307, 25.321, 25.337, 25.561, 25.601, 25.603, 25.605, 25.609, 25.613, 25.625, 25.771, 25.853, 25.869, 25.899, 25.1301, 25.1309, 25.1351, 25.1353, 25.1357, 25.1431, 25.1501, 25.1519, 25.1529, 25.1581.

The requirements for environmental protection and the associated certified noise and/ or emissions levels of the product are unchanged and remain applicable to this certificate/approval without any impact on the noise database.

See Continuation Sheet(s)

For the European Union Aviation Safety Agency

Cologne, Germany, 13 January 2022



Nicolas DUPREZ

Project Certification Manager – STC Coordinator



SUPPLEMENTAL TYPE CERTIFICATE

10072159 REV. 1

This Certificate/Approval is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation and in accordance with Commission Regulation (EU) No. 748/2012 to

NORTHERN AVIONICS S.R.L.

VIALE DELL' AVIAZIONE 65
20138 MILANO
ITALY
EASA.21J.223

and certifies that the change in the type design for the product listed below with the limitations and conditions specified meets the applicable Type Certification Basis and, if applicable, environmental protection requirements when operated within the conditions and limitations specified below:

Type Certificate Number: EASA.IM.A.120

Type Certificate Holder: THE BOEING COMPANY

Type: 737

Model: 737-100

737-200

737-300

737-400

737-500

737-600

737-700

737-800

737-900

737-900ER

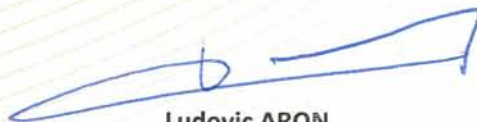
Description of Design Change:

Wi-Fi WAVES installation

See Continuation Sheet(s)

For the European Union Aviation Safety Agency

Cologne, Germany, 30 January 2020



Ludovic ARON
Head of Department
Large Aeroplanes



SUPPLEMENTAL TYPE CERTIFICATE

10074937

This Certificate/Approval is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation and in accordance with Commission Regulation (EU) No. 748/2012 to

NORTHERN AVIONICS S.R.L.

VIALE DELL' AVIAZIONE 65
20138 MILANO
ITALY

EASA.21J.223

and certifies that the change in the type design for the product listed below with the limitations and conditions specified meets the applicable Type Certification Basis and, if applicable, environmental protection requirements when operated within the conditions and limitations specified below:

Type Certificate Number: EASA.A.004

Type Certificate Holder: AIRBUS S.A.S.

Type: A330

Model: A330-201,-202,-203,-223,-243

A330-301,-302,-303,-321,-322

A330-323,341,-342,-343

Description of Design Change:

Wi-Fi WAvES Installation./Installation of Wi-Fi system into the cabin of the A330 family for passenger usage

EASA Certification Basis:

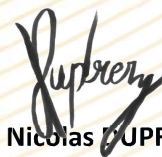
The Certification Basis for the original product remains applicable to this certificate/ approval.

The requirements for environmental protection and the associated certified noise and/ or emissions levels of the product are unchanged and remain applicable to this certificate/ approval without any impact on the noise database.

See Continuation Sheet(s)

For the European Union Aviation Safety Agency

Cologne, Germany, 24 November 2020



Nicolas DUPREZ

Project Certification Manager – STC Coordinator

