

United States of America
Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate

Number ST03424CH

This certificate issued to

CMD Flight Solutions LLC
9199 Cotters Ridge
Richland, MI 49083

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

Original Product- Type Certificate Number *

* See attached Federal Aviation Administration (FAA) Approved Model List (AML) number ST03424CH for approved aircraft models and applicable airworthiness regulations.

Make *

Model: *

Description of Type Design Change:

Certification of Automatic Dependent Surveillance - Broadcast (ADS-B) Out System with Rockwell Collins TDR-94/-94D Transponders in accordance with Dan Buzz & Associates Master Data List, Document No. DB1409001, Revision F, dated July 20, 2015, or later FAA approved revision.

Limitations and Conditions:

- 1) The installer must determine whether this design change is compatible with previously approved modifications.
- 2) 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.
- 3) The existing Rockwell Collins TDR-94/-94D Transponder installation must be previously FAA Approved.
- 4) FAA Approved Airplane Flight Manual Supplement (AFMS) as listed on the AML number ST03424CH, or later FAA approved revision, is required on board the modified aircraft.
- 5) Additional Limitations and Conditions are listed on AML number ST03424CH.

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: September 12, 2014

Date reissued: August 28, 2015

Date of issuance: February 23, 2015

Date amended:



By direction of the Administrator

Steven L. Lardinois
(Signature)

Steven L. Lardinois
Manager, Systems and Flight Test Branch
Chicago Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

**Federal Aviation Administration (FAA) Approved Model List (AML) Number ST03424CH
CMD Flight Solutions LLC**

FOR

Rockwell Collins TDR-94/-94D Transponders with Automatic Dependent Surveillance - Broadcast (ADS-B) Out

Issue Date: February 23, 2015

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	TCDS NO.	FAA APPROVED AIRCRAFT FLIGHT MANUAL SUPPLEMENT		FAA APPROVED MASTER DRAWING LIST		TDR-94/94D Transponder Approved Part Numbers	GPS SOURCE	AML AMENDMENT DATE
				Number/Rev *	Date Approved	Number	Rev*/Date			
1.	Airbus Defense and Space S.A.	CN-235-100 CN-235-200 CN-235-300	A21NM	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016
2.	Beechcraft Corporation	MU-300 (Diamond I and IA)	A14SW	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016
3.	Beechcraft Corporation	MU-300-10 (Diamond II), 400 400A (Hawker 400XP) 400T	A16SW	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016

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4.	Beechcraft Corporation	HS.125 Series 700A HS.125 Series 700B BAe.125 Series 800A BAe.125 Series 800B Hawker 800XP Hawker 850XP Hawker 900XP Hawker 750	A3EU	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS Or Honeywell HG2021GD07 GNSSU	9-27-2016
5.	The Boeing Company	727 Series 727-100 Series 727-200 Series	A3WE	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016
6.	The Boeing Company	DC-9-87 (MD-87)	A6WE	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016

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7.	Bombardier Inc.	DHC-8-100 Series DHC-8-200 Series DHC-8-300 Series DHC-8-400 Series	A13NM	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016
8.	Bombardier Inc.	CL600-1A11 (CL- 600) CL600-2A12 (CL-601) CL600- 2B16 (CL-601-3A Variant, CL-601-3R Variant, CL-604 Variant) CL-600-2B19 (Regional Jet Series 100 & 440) CL-600-2C10 (Regional Jet Series 700, 701 & 702) CL-600-2D15 (Regional Jet Series 705) CL-600-2D24 (Regional Jet Series 900) CL-600-2E25 (Regional Jet Series 1000)	A21EA	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016

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9.	Bombardier Inc.	BD-100-1A10	T00005NY	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or FreeFlight Systems Model 1203C GPS	4-19-2016
10.	Dassault Aviation	Fan Jet Falcon Fan Jet Falcon Series C, D, E, F, G Mystere-Falcon 20- C5, 20-D5, 20-E5, 20-F5 Mystere-Falcon 200	A7EU	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016
11.	Dassault Aviation	Falcon 10	A33EU	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016
12.	Dassault Aviation	Mystere-Falcon 50 (Falcon 50EX) Mystere-Falcon 900 Falcon 900EX	A46EU	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016

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13.	Dassault Aviation	Falcon 2000 Falcon 2000EX	A50NM	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016
14.	Fokker Services B. V.	F.27 Mark 050 (Fokker 50)	A-817	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016
15.	Gulfstream Aerospace LP	1125 Westwind Astra Astra SPX Gulfstream 100 Gulfstream G150	A16NM	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016

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16.	Gulfstream Aerospace LP	Galaxy Gulfstream 200	A53NM	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016
17.	Gulfstream	G-1159 G-1159A G1159B G-IV GV GV-SP	A12EA	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS Or Honeywell HG2021GD07 GNSSU	9-27-2016
18.	Israel Aircraft Industries Ltd.	1123 1124 1124A	A2SW	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016

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19.	Kelowna Flightcraft R & D Ltd. Tracor (Convair)	340 440	6A6	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016
20.	Learjet Inc.	23	A5CE	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016
21.	Learjet Inc.	24, 24A, 24B, 24B-A, 24C, 24D, 24D-A, 24E, 24F, 24F-A 25, 25A, 25B, 25C, 25D, 25F, 28, 31, 31A 35, 35A (C-21A) 36, 36A, 55, 55B, 55C 60	A10CE	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016

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22.	Learjet Inc.	45 (Learjet 40, Learjet 45, Learjet 70, Learjet 75)	T00008WI	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS Or Honeywell HG2021GD07 GNSSU	9-27-2016
23.	Lockheed Martin Corporation	1329-23A 1329-23D 1329-23E 1329-25	2A15	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016
24.	Sabreliner Aviation LLC	NA-265-65 NA265-70 NA265-80	A2WE	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016

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25.	Short Brothers PLC	SD3-30 SD3-60 SD3-SHERPA SD3-60 SHERPA	A41EU	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS	4-19-2016
26.	Textron Aviation Inc.	650 (Citation III, VI and VII)	A9NM	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS Or Honeywell HG2021GD07 GNSSU	9-27-2016

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				Number/Rev *	Date Approved	Number	Rev*/Date			
27.	Textron Aviation Inc.	500 550 S550 552 560 560XL	A22CE	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS Or Honeywell HG2021GD07 GNSSU	9-27-2016
28.	Textron Aviation Inc.	750	T00007W1	DB1409004, C	4-19-2016	DB1409001	K 8-26-2016	622-9210-501 622-9352-501	Rockwell Collins GPS-4000S or Universal Avionics UNS-1(-)w FMS or FreeFlight Systems Model 1203C GPS Or Honeywell HG2021GD07 GNSSU	9-27-2016

*or later FAA-Approved Revision

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FAA Approved:



**Steven L. Lardinois
Manager, Systems and Flight Test Branch
Chicago Aircraft Certification Office**

Date Reissued: August 28, 2015

Date Amended: June 22, 2015; August 28, 2015
December 16, 2015, April 19, 2016
September 27, 2016

Limitations and Conditions:

AML Items 1 through 28

- 1) Successful completion of Ground Test Plan DB1410017 Revision D dated April 4, 2016, or later FAA approved revision, must be accomplished following implementation of this STC.

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Certification Basis for Alteration:

AML Items 1 through 28

The certification basis for the changed aircraft as described in this AML is as follows:

- a. The type certification basis for the aircraft listed on the FAA Approved Model List, is shown on TCDS listed on the FAA Approved Model List for parts not changed or not affected by this change.
- b. The certification basis for parts changed or affected by this change since the reference date of application, October 23, 2015, is as follows:

Regulations at the amendment level:

14 CFR §§ 25.301 [25-23], 25.303[25-23], 25.305(a)(b)(c)[25-86], 25.307(a)[25-72], 25.561(c) [25-91], 25.601[25-00], 25.603(a)(b)(c)[25-46], 25.605(a)[25-46], 25.607 [25-23], 25.609(a)(b)[25-00], 25.611(a) [25-123], 25.613(a)(b)(c) [25-112], 25.619 [25-23], 25.625(a)(b)(c)[25-72], 25.789(a) [25-46], 25.1301(a)(1)(2)(3)(4) [25-123], 25.1322(a)(1)(e)(1) [25-131], 25.1327(a) [ORIG], 25.1351 (a)(1) [25-72], 25.1353(c) [25-123], 25.1357(a)(c) [25-123], 25.1381(a)(b) [25-72], 25.1431 (a)(b)(c)(d) [25-113] , 25.1501 [25-42], 25.1525 (ORIG), 25.1529 [25-54], 25.1581 [25-72], 25.1583(e) [25-130], 25.1585(a) [25-105].

Additional regulations for AML Items 1, 5, 6, 8 (RJ Series only), and 14:

14 CFR 26.11(c)(1)