

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

Number SA10822SC

This Certificate issued to Aspen Avionics, Inc.
5001 Indian School Rd. NE
Albuquerque, NM 87110

*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 * of the * Regulations.*

Original Product Type Certificate Number : [*See attached FAA Approved
Make: Model List (AML) for list of Approved models and
Model: Applicable airworthiness regulations]

Description of Type Design Change: Installation of EFD1000 Primary Flight Display in accordance with Aspen Avionics Installation Manual document #A-01-126-00, Revision C, dated 3/28/2008, or later approved FAA revision. Airplane Flight Manual Supplement document #A-01-175-00, Revision B, dated 3/17/2008 or document #A-01-179-00, Revision A, dated 3/17/2008, or later FAA approved revision is required.

(See continuation sheet 3 of 3)

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 shall give the other person written evidence of that permission.

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.

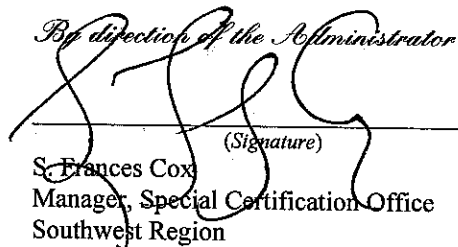
Date of application: June 22, 2007

Date reissued: April 18, 2008

Date of issuance: March 28, 2008

Date amended: February 13, 2009; September 29, 2009 Rev. 2



By direction of the Administrator

(Signature)
S. Frances Cox
Manager, Special Certification Office
Southwest Region

(Title)

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

Number SA10822SC

Date of Issuance: March 28, 2008
Date Amended: September 29, 2009

Description of Type Design Change (Continued): Installation of EFD1000/EFD500 Evolution Flight Display(s) System in accordance with Aspen Avionics Installation Manual document #900-00003-001, Revision D, dated September 28, 2009, or later approved FAA revision, and installation of the EWR50 Datalink Receiver component of the EFD1000/500 Evolution Flight Display(s) System in accordance with Aspen Avionics EWR50 Installation Manual document #900-00007-001, Revision C, dated September 28, 2009, or later approved FAA revision. Airplane Flight Manual Supplement document #900-00008-001, Revision A, dated September 28, 2009, or later FAA approved revision is required.

Certification Basis: In accordance with 14 CFR 23 Amendment 23-55, High Intensity Radiated Fields (HIRF), Docket No. CE278, Special Condition 23-218-SC and Equivalent Level of Safety Memo# ACE-09-15.

-END-

FAA APPROVED MODEL LIST (AML)

STC No. SA10822SC

Aspen Avionics, Inc.
5001 Indian School NE
Albuquerque, NM 87110 USA

Date of issuance: March 28, 2008

Amended date: April 4, 2008 (AML only), July 25, 2008 (AML only), August 25, 2008 (AML only), October 27, 2008 (AML only)

Aircraft Make	Aircraft Model(s)	Type Certificate Number (TCDS)	Certification Basis	Class 1 or 2
Aermacchi S.p.A	S.205-18/F, S.205-18/R, S.205-20/F, S.205-20/R, S.205-22/R, S.208, S.208A	A9EU	FAR 23	1
Aero Commander (Dynac Aerospace Corp.)	10, 10A, 100, 100A, 100-180	1A21	CAR 3	1
Aeronautica Macchi S.p.A	AL 60, AL 60-B, AL 60-F5, AL 60-C5	7A12	CAR 3	1
Aerostar Aircraft Corporation	PA-60-600, PA-60-601, PA60-601P, PA60-602P	A17WE	FAR 23	2
Alexandria Aircraft, LLC (Bellanca)	14-19, 14-19-2, 14-19-3, 14-19-3A, 17-30, 17-31, 17-31TC	1A3	CAR 3	1
	17-30A, 17-31A, 17-31ATC	A18CE	FAR 23	1
American Champion	402	A3CE	CAR 3	2
	8KCAB, 8GCBC	A21CE	FAR 23	1
	7ECA, 7GCAA, 7GCBC, 7KCAB	A-759*	CAR 4A	1
APEX Aircraft	CAP 10B	A36EU	FAR 21	1
Cessna	120, 140	A-768	CAR 3	1
	140A	5A2	CAR 3	1
	150, 150A, 150B, 150C 150D, 150E, 150F, 150G, 150H, 150J, 150K, 150L, 150M, A150K, A150L, A150M, 152, A152	3A19	CAR 3, FAR 23	1
	170, 170A, 170B	A-799	CAR 3	1
	172, 172A, 172B, 172C, 172D, 172E, 172F, 172G, 172H, 172I, 172K, 172L, 172M, 172N, 172P, 172Q, 172R, 172S	3A12	CAR 3, FAR 23	1
	172RG, P172D, R172E, R172F, R172G, R172H, R172J, R172K, 175, 175A, 175B, 175C	3A17	CAR 3	1
	177, 177A, 177B	A13CE	FAR 23	1

	177RG	A20CE	FAR 23	1
	180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K	5A6	CAR 3	1
Cessna (Continued)	182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, 182S, 182T, R182, T182, TR182, T182T	3A13	CAR 3, FAR 23	1
	185, 185A, 185B, 185C, 185D, 185E, A185E, A185F	3A24	CAR 3	1
	210, 210A, 210B, 210C, 210D, 210E, 210F, T210F, 210G, T210G, 210H, T210H, 210J, T210J, 210K, T210K, 210L, T210L, 210M, T210M, 210N, P210N, T210N, 210R, P210R, T210R, 210-5, 210-5A	3A21	CAR 3	1
	206, P206, P206A, P206B, P206C, P206D, P206E, TP206A, TP206B, TP206C, TP206D, TP206E, U206, U206A, U206B, U206C, U206D, U206E, U206F, U206G, TU206A, TU206B, TU206C, TU206D, TU206E, TU206F, TU206G, 206H, T206H	A4CE	CAR 3	1
	207, 207A, T207, T207A	A16CE	FAR 23	1
	T-303 (Crusader)	A34CE	FAR 23	2
	310, 310A (USAF U-3A), 310B, 310C, 310D, 310E (USAF U-3B), 310F, 310G, 310H, E310H, 310I, 310J, 310J-1, E310J, 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R	3A10	CAR 3	2
	320, 320A, 320B, 320C, 320D, 320E, 320F, 320-1, 335, 340, 340A	3A25	CAR 3	2
	336	A2CE	CAR 3	2
	337, 337A, 337B, T337B, 337C, 337E, T337E, T337C, 337D, T337D, M337B, 337F, T337F, 337G, T337G, 337H, P337H, T337H, T337H-SP	A6CE	CAR 3, FAR 23	2
	LC40-550FG, LC41-550FG, LC42-550FG	A00003SE	FAR 23	1
Cirrus Design Corp.	SR20, SR22	A00009CH	FAR 23	1
Consolidated Vultee Aircraft Corporation	V-77 (Army AT-19),	A-774	Car 4a	1
CPAC, Inc. (Commander Aircraft Co.)	112, 112TC, 112B, 112TCA, 114, 114A, 114B, 114TC	A12SO	CAR 3	1
Cub Crafters	CC18-180, CC18-180A	A00006SE	FAR 23	1
Diamond Aircraft Company	DA 20-A1, DA20-C1	TA4CH	FAR 23	1
	DA 40, DA 40F	A47CE	FAR 23	1

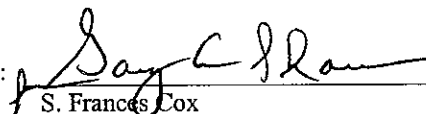
Extra (Extra Flugzeugbau GmbH)	EA-300, EA-300L, EA-300S, EA-300/200	A67EU	FAR 23	1
	EA-400	A43CE	FAR 23	1
Found Aircraft Development, Inc.	FBA-2C, FBA-2C1, FBA-2C2	A7EA	CAR 3, FAR 23	1
FS 2003 Corporation	PA-12, PA-12S	A-780	CAR 3	1
Gulfstream American Corporation	G44, G44A, SCAN Type 30	A-734	CAR 4a	2
Grob-Werke	G115, G115A, G115B, G115C, G115C2, G115D, G115D2, G115EG	A57EU	FAR 23	1
	G120A	A49CE	FAR 23	1
Hawker Beechcraft	35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, E33C, F33, F33A, F33C, G33, H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC	3A15*	CAR 3	1
	35, A35, B35, C35, D35, E35, F35, G35, 35R	A-777	CAR 3	1
	76	A29CE	FAR 23	1
	95, B95, B95A, D95A, E95, 95-55, 95-A55, 95- B55, 95-B55A, 95-B55B (T-42A), 95-C55, 95- C55A, D55, D55A, E55, E55A, 56TC, A56TC, 58, 58A	3A16*	CAR 3, FAR 23	2
	19A, B19, M19A, 23, A23, A23A, A23-19, A23-24, B23, C23, A24, A24R, B24R, C24R	A1CE	CAR 3	1
	50, B50, C50, D50, D50A, D50B, D50C, D50E, D50E-5990, E50 (L-23D, RL-23D), F50, G50, H50, J50	5A4	CAR 3	2
	45 (YT-34), A45 (T-34A) or (B-45), D45 (T- 34B)	5A3	CAR 3	1
	58P, 58PA, 58TC, 58TCA	A23CE	FAR 23	2
Helio (Alliance Aircraft Group, LLC)	H-250, H-295, HT-295, H391, H391B, H-395, H-395A, H-700, H-800	1A8	CAR 3	1
	HST-550, HST-550A	A4EA	CAR 3	1
King's Engineering Fellowship (The)	Model 44	A2WI	FAR 23	2
Liberty Aerospace Incorporated	XL-2	A00008DE	FAR 23	1
Lockheed Aircraft Corporation	402-2	2A11	CAR 3	2

Maule	Bee Dee M-4, M-4, M-4C, M-4S, M-4T, M-4-180C, M-4-180S, M-4-180T, M-4-210, M-4-210C, M-4-210S, M-4-210T, M-4-220, M-4-220C, M-4-220S, M-4-220T, M-5-180C, M-5-200, M-5-210C, M-5-210TC, M-5-220C, M-5-235C, M-6-180, M-6-235, M-7-235, MX-7-235, MX-7-180, MX-7-420, MXT-7-180, MT-7-235, M-8-235, MX-7-160, MXT-7-160, MX-7-180A, MXT-7-180A, MX-7-180B, M-7-235B, M-7-235A, M-7-235C, MX-7-180C, M-7-260, MT-7-260, M-7-260C, M-7-420AC, MX-7-160C, MX-7-180AC, M-7-420A, MT-7-420	3A23	CAR 3	1
Mooney Aircraft Corp	M20, M20A, M20B, M20C, M20D, M20E, M20F, M20G, M20J, M20K, M20L, M20M, M20R, M20S	2A3*	CAR 3	1
	M22	A6SW	CAR 3	1
Moravan a.s.	Z-242L, Z-143L	A76EU	FAR 23	1
Pilatus Aircraft	PC-6, PC-6-H1, PC-6-H2, PC-6/350, PC-6/350-H1, PC-6/350-H2, PC-6/A, PC-6/A-H1, PC-6/A-H2, PC-6/B-H2, PC-6/B1-H2, PC-6/B2-H2, PC-6/C-H2, PC-6/C1-H2, PC-6/B2-H4	7A15	CAR 3	1
Piper	PA-18, PA-18S, PA-18-105, PA-18S-105, PA-18A, PA-18-125, PA-18S-125, PA-18AS-125, PA-18-135, PA-18A-135, PA-18S-135, PA-18AS-135, PA-18-150, PA-18A-150, PA-18S-150, PA-18AS-150, PA-19, PA-19 S	1A2	CAR 3	1
	PA-20, PA-20S, PA-20-115, PA-20S-115, PA-20-135, PA-20S-135	1A4	CAR 3	1
Piper (continued)	PA-22, PA-22-108, PA-22-135, PA-22S-135, PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	1A6	CAR 3	1
	PA-23, PA-23-160, PA-23-235, PA-23-250	1A10*	CAR 3	2
	PA-24, PA-24-250, PA-24-260, PA-24-400	1A15	CAR 3	1
	PA-28-140, PA-28-150, PA-28-151, PA-28-160, PA-28-161, PA-28-180, PA-28-235, PA-28S-160, PA-28S-180, PA-28-181, PA-28R-180, PA-28R-200, PA-28R-201, PA-28R-201T, PA-28RT-201, PA-28RT-201T, PA-28-201T, PA-28-236	2A13	CAR 3	1
	PA-30, PA-39, PA-40	A1EA	CAR 3	2
	PA-32-260, PA-32-300, PA-32S-300, PA-32R-300, PA-32RT-300, PA-32RT-300T, PA-32R-301(SP), PA-32R-301(HP), PA-32R-301T, PA-32-301, PA-32-301T, PA-32-301FT, PA32-301XTC	A3SO	CAR 3	1
	PA-34-200, PA-34-200T, PA-34-220T	A7SO	CAR 3	2
	PA-44-180, PA-44-180T	A19SO	FAR 23	1
Piper (Continued)	PA-46-310P, PA-46-350P	A25SO*	FAR 23	1
Prop-Jets, Inc.	200, 200A, 200B, 200C, 200D, 400	3A18	CAR 3	1

PZL (Panstwowe Zaklady Lotnicze)	PZL-104 WILGA 80, PZL-104M WILGA 2000, PZL-104MA WILGA 2000	A55EU	FAR 23	1
	PZL-KOLIBER 150A, PZL-KOLIBER 160A,	A69EU	FAR 23	1
PZL (PZL Mielec)	PZL M20 03	A68EU	FAR 23	2
	PZL M26 01	A44CE	FAR 23	1
Quartz Mountain Aerospace Inc.	11A, 11E	A-804	CAR 3	1
Revo (Global Amphibians LLC)	Colonial C-1, Colonial C-2, Lake LA-4, Lake LA-4A, Lake LA-4P, Lake LA-4-200, Lake Model 250	1A13	CAR 3	1
Robert E. Rust, Jr. (DeHavilland)	DH.C1 Chipmunk 21, DH.C1 Chipmunk 22, DH.C1 Chipmunk 22A	A44EU	FAR 21	1
Rockwell International Corporation	AT-6 (SNJ-2), AT-6A (SNJ-3), AT-6B, AT-6C (SNJ-4), AT-6D (SNJ-5), AT-6F (SNJ-6), BC-1A, SNJ-7, T-6G	A-2-575	Car 4a	1
Sierra Hotel Aero, Inc. (Navion Aircraft Company)	Navion, Navion A, Navion B, Navion D, Navion E, Navion F, Navion G, Navion H	A-782	CAR 3	1
Slingsby Aviation Ltd.	T67M260, T67M260-T3A	A73EU	FAR 23	1
Spartan	7W (Army UC-71)	TC 628	Aeronautical Bulletin 7-A	1
SOCATA (Groupe Aerospatiale)	TB9, TB10, TB20, TB21, TB200	A51EU	FAR 23	1
	Rallye 100S, Rallye 150ST, Rallye 150T, Rallye 235E, Rallye 235C MS880B, MS885, MS894A, MS893A, MS892A-150, MS892E-150, MS893E, MS894E	7A14	CAR 3	1
	GA-7 (Cougar)	A17SO	FAR 23	2
Swift Museum Foundation	GC-1A, GC-1B	A-766	CAR 4a	1
Symphony Aircraft Industries Inc. (Ostmeck. Flugzeugbau GmbH)	OMF-100-160, SA 160	A46CE	FAR 23	1
True Flight Holdings LLC (Tiger Aircraft LLC)	AA-1, AA-1A, AA-1B, AA-1C	A11EA	FAR 23	1
	AA-5, AA-5A, AA-5B, AG-5B	A16EA	FAR 23	1
Twin Commander Aircraft Corp.	500, 520, 560, 560-A	6A1*	CAR 3	2
Univair Aircraft Corporation (Stinson)	108, 108-1, 108-2, 108-3, 108-5	A-767	CAR 3	1
Viking Air Limited (DeHavilland)	DHC-2 Mark I, DHC-2 Mark II, DHC-2 Mark III	A-806	CAR 3	1

Vulcanair S.p.A. (Partenavia)	P68, P68B, P68C, P68C-TC, P68 "Observer," P68 "Observer 2," P68 TC "Observer", AP68TP 300 "Spartacus", AP68TP 600 "Viator"	A31EU	FAR 23	2
WACO Aircraft Company	WACO YMF	ATC 542	Aero 7A	1
Zenair Ltd.	CH2000	TASCH	FAR 23	1

FAA Approved:



S. Frances Cox
 Manager, Special Certification Office
 Southwest Region

Date:

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