

SWIFTBROADBAND TYPE APPROVED SYSTEMS

1.1. Notes for ESAS activation of “Swift64/Classic” Associated Systems:

- All Swift64/Classic Systems shall contain the widened frequency check algorithm and be activated in ESAS as “Category A” (as default).
- Only aircraft that are protecting non-standard (GPS) navigational system (e.g., Glonass) are permitted to be activated as Cat-B. (Type F diplexer does not require a Frequency Check Algorithm) [Receiver L-band: 1525 -1559MHz]

Note: Inmarsat’s spectrum management is optimised to make available for the majority of the users, the larger channel pools (Cat-A).

1.2. Notes for Swift64 Type Approval:

- All AESs shall be compliant to CP-080 (GPS inter-modulation protection as the default <1585MHz) [Cat-A = 34MHz tuning].
- All AESs shall have a Ocean Region Registration process repeat timer value of 30 minutes (TM079).

1.3. The following tables identify:

- Type Approved SwiftBroadband Systems (consisting of the Antenna, DLNA & Avionics)
- Antennas Assessed for SwiftBroadband Usage.
- DLNAs Assessed for SwiftBroadband Usage.
- Avionics Assessed for SwiftBroadband Usage.

The order of the Approval/Assessment entries within the following tables is Alpha-Numerical and is based upon the Class of UE together with the Manufacturers/Integrators Unique Two Digit Identification code e.g., S6IN01 (SBB + Class 6 + Inmarsat + 01-99).

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|--|---|
| – AA = AeroAntenna Technology Inc, [M] | – HW = Honeywell Aerospace, [M] |
| – BA = Ball Aerospace & Technologies Corp, [M] | – LF = Lufthansa Technik AG [I] |
| – BO = Boeing [I] | – RK = Rockwell Collins, [M] |
| – CD = COM Dev International Ltd, [M] | – SV = Seavey Engineering Associates, [M] |
| – CH = Omnipless/Chelton Inc/Cobham, [M] | – TH = Thales Avionics Ltd, [M] |
| – CM = CMC Electronics, [M] | – TT = Thrane & Thrane AS, [M] |
| – ES = EMS Technologies Canada Ltd, [M] | |

For Aeronautical Type Approval information & queries, related to this list, please contact Christophe.Joubard@inmarsat.com
For SwiftBroadband Product related issues/information, please contact (Ashutosh.Prasad@inmarsat.com).

2. Type Approved Summary Table

“Multi-Channel” = 2 * SBB channels or 1 * SBB channel + Classic.

SBB	TAP	CLASSIC	I4 PROVEN	SWIFT64	AVIONICS	MODEL NAME	ANTENNA	NO CHANNELS	DATE
Boeing									
S6BO01		5BOP20	Yes	76BO20	B6ES04	HSD-440	Ball Airlink HGAS	Multi-Channel	May 2010
S6BO02		5BOP21	Yes	76BO20	B6ES03	HSD-400	Ball Airlink HGAS	Multi-Channel	July 2010
S6BO03		5BOP22	Yes	N/A	B6TH02	Thales Top Flight	CMA-2102SB	Multi-Channel	Jan 2012
S7BO01		5BOP23	Yes	N/A	B7TH02	Thales Top Flight	CMA-2200SB	Single Channel	June 2012
S7BO02		5BOP24	Yes	N/A	B7TH02	Thales Top Flight	CMA-2200SB	Multi-Channel	June 2012
Chelton Inc/Cobham/Omnipless									
S6CH01		N/A	N/A	N/A	B6CH01	SDU-7320, 7330	HGA-7000	Multi-Channel	May 2009
S6CH02		N/A	N/A	N/A	B6CH01	SDU-7320, 7330	HGA-7001	Multi-Channel	May 2009
S6CH03		N/A	N/A	N/A	B6CH01	SDU-7320, 7330	HGA-8000	Multi-Channel	May 2009
S6CH04		N/A	N/A	N/A	B6CH01	SDU-7320, 7330	HGA- 6000/6500	Single Channel	Sep 2009

SBB	TAP	CLASSIC	I4 PROVEN	SWIFT64	AVIONICS	MODEL NAME	ANTENNA	NO CHANNELS	DATE
S6CH05		N/A	N/A	N/A	B6CH01	SDU-7320, 7330	HGA-7000	Single Channel	Sep 2009
S6CH06		N/A	N/A	N/A	B6CH01	SDU-7320, 7330	HGA-7001	Single Channel	Sep 2009
S6CH07		N/A	N/A	N/A	B6CH01	SDU-7320, 7330	HGA-6000/6500	Multi-Channel	Nov 2009
S6CH08		N/A	N/A	N/A	B6CH02	SDU-7315	HGA-6000/6500	Single Channel	Nov 2010
S7CH01		N/A	N/A	N/A	B7CH01	SDU-7320, 7330	IGA-5001	Multi-Channel	June 2010
S7CH02		N/A	N/A	N/A	B7CH01	SDU-7320, 7330	IGA-5006	Single Channel	Dec 2009
S7CH03		N/A	N/A	N/A	B7CH02	SDU-7315	IGA-5006	Single Channel	Nov 2010
S15CH01		N/A	N/A	N/A	B15CH01	SDU-7310	LGA-3000	Single Channel	Feb 2011
S7CH04		N/A	N/A	N/A	B7CH02	SDU-7315	IGA-5001	Single Channel	Dec 2011
S6CH09		N/A	N/A	N/A	B6CH03	SDU-7330-004	HGA-7000	Multi-Channel (4xSBB)	Apr 2012
S6CH10		N/A	N/A	N/A	B6CH03	SDU-7330-004	HGA-7001	Multi-Channel (4xSBB)	Apr 2012
S6CH11		N/A	N/A	N/A	B6CH03	SDU-7330-004	HGA-6000/6500	Multi-Channel (4xSBB)	Apr 2012

SBB	TAP	CLASSIC	I4 PROVEN	SWIFT64	AVIONICS	MODEL NAME	ANTENNA	NO CHANNELS	DATE
S6CH12		N/A	N/A	N/A	B6CH01	SDU-7320, 7330	AMT-50	Single Channel	Apr 2012
S6CH13		N/A	N/A	N/A	B6TT01	Aviator 350/350D	HGA-8000	Single Channel	May 2019
S7CH05		N/A	N/A	N/A	B7CH03	SDU-7330-004	CMA-2200SB	Multi-Channel (4xSBB)	May 2012
S7CH06		N/A	N/A	N/A	B7CH03	SDU-7330-004	IGA-5001	Multi-Channel (4xSBB)	May 2012
EMS Technologies Canada Ltd									
S6ES01		N/A	N/A	76ES09	B6ES02	HSD-400i	AMT-50	Multi-Channel	May 2008
S6ES02		N/A	N/A	76ES08	B6ES03	HSD-400	AMT-50	Multi-Channel	May 2008
S6ES03	002 003	N/A	N/A	76ES09	B6ES02	HSD-400i	AMT-3800	Multi-Channel	Dec 2008
S6ES04		N/A	N/A	76ES08	B6ES03	HSD-400	AMT-3800	Multi-Channel	Dec 2008
S6ES05		5ESP08 5ESP14	Yes	76ES10	B6ES04	HSD-440	AMT-3800	Multi-Channel	Oct 2010
S6ES06		5ESP09 5ESP15	Yes	76ES10	B6ES04	HSD-440	AMT-50	Multi-Channel	Oct 2010
S6ES07	002 003	na	Yes	76ES09	B6ES02	HSD-400i	AMT-700	Multi-Channel	July 2010

SBB	TAP	CLASSIC	I4 PROVEN	SWIFT64	AVIONICS	MODEL NAME	ANTENNA	NO CHANNELS	DATE
S6ES08		5ESP13 5ESP16	Yes	76ES10	B6ES04	HSD-440	AMT-700	Multi-Channel	Oct 2010
S7ES01		N/A	N/A	N/A	B7ES01	HSD-400i	AMT-3500	Multi-Channel	Aug 2009
S15ES01		N/A	N/A	N/A	B15ES01	HSD-Xss1 Aspire 200 LG	Sensor System Omni	Single- Channel	May 2011
S6ES09		N/A	Yes	76ES11	B6ES05	HSD400i + 2x HSDXi	AMT-50	Multi-Channel (4xSBB)	March 2012
S7ES02		N/A	Yes	N/A	B7ES02	Aspire 200 IG	AMT-3500	Single Channel	May 2011
S6ES10		N/A	Yes	76ES12	S6es	Aspire 200 HG	AMT-3800	Single Channel	May 2011
S6ES11		N/A	Yes	76ES12	B6ES06	Aspire 200 HG	AMT-700	Single Channel	May 2011
S15ES02		N/A	Yes	N/A	B15ES01	Aerowave 100	AT1675-180	Single Channel	May 2014
S7ES03		N/A	Yes	N/A	B7ES02	Aspire 200 IG	AMT-1800	Single Channel	June 2014
S6ES12		5ESP17	Yes	76ES16	B6ES04	HSD-440	CMA-2102SB	Multi-Channel	Sep 2015
S15ES03		N/A	Yes	N/A	B15ES01	Aerowave 100 V2	AT1595-13	Single Channel	Sep 2015
S6ES13		5ESP18	Yes	76ES17	B6ES07	HSD440+HSDXi (x2)	AMT-50	Multi-Channel	Dec 2016

SBB	TAP	CLASSIC	I4 PROVEN	SWIFT64	AVIONICS	MODEL NAME	ANTENNA	NO CHANNELS	DATE
S6ES14		5ESP19	Yes	76ES17	B6ES07	HSD440+HSDXi (x2)	AMT-3800	Multi-Channel	Dec 2016
S6ES15		5ESP20	Yes	76ES17	B6ES07	HSD440+HSDXi (x2)	AMT-700	Multi-Channel	Dec 2016
S6ES09		N/A	Yes	76ES11	B6ES05	HSD400i + 2x HSDXi	AMT-50	Multi-Channel (4xSBB)	March 2012
S7ES02		N/A	Yes	NA	B7ES02	Aspire 200 IG	AMT-3500	Single Channel	May 2011
S6ES10		N/A	Yes	76ES12	S6es	Aspire 200 HG	AMT-3800	Single Channel	May 2011
S6ES11		N/A	Yes	76ES12	B6ES06	Aspire 200 HG	AMT-700	Single Channel	May 2011
S15ES02		N/A	Yes	N/A	B15ES01	Aerowave 100	AT1675-180	Single Channel	May 2014
S7ES03		N/A	Yes	N/A	B7ES02	Aspire 200 IG	AMT-1800	Single Channel	June 2014
S6ES12		5ESP17	Yes	76ES16	B6ES04	HSD-440	CMA-2102SB	Multi-Channel	Sep 2015
S15ES03		N/A	Yes	N/A	B15ES01	Aerowave 100 V2	AT1595-13	Single Channel	Sep 2015
S6ES13		5ESP18	Yes	76ES17	B6ES07	HSD440+HSDXi (x2)	AMT-50	Multi-Channel	Dec 2016
S6ES14		5ESP19	Yes	76ES17	B6ES07	HSD440+HSDXi (x2)	AMT-3800	Multi-Channel	Dec 2016

SBB	TAP	CLASSIC	I4 PROVEN	SWIFT64	AVIONICS	MODEL NAME	ANTENNA	NO CHANNELS	DATE
S6ES15		5ESP20	Yes	76ES17	B6ES07	HSD440+HSDXi (x2)	AMT-700	Multi-Channel	Dec 2016
Honeywell Aerospace									
S6HW01		5HWP41 5HWP61	Yes	76HW07	B6HW01	MCS-7120	AMT-50	Multi-Channel	Oct 2010
S6HW02		5HWP17	Yes	76HW06	B6HW02	MCS-7147	AMT-50	Multi-Channel	Aug 2008
S6HW03		5HWP50	Yes	76HW06	B6HW02	MCS-7163	HGA- 6000/6500	Multi-Channel	Nov 2008
S6HW04		5HWP49	Yes	76HW06	B6HW02	MCS-7147	HGA- 6000/6500	Multi-Channel	Nov 2008
S6HW05		5HWP48 5HWP62	Yes	76HW07	B6HW01	MCS-7120	HGA- 6000/6500	Multi-Channel	Oct 2010
S6HW06		5HWP30	Yes	76HW03	B6HW03	MCS-7200	CMA-2102SB	Multi-Channel	Mar 2009
S6HW07		5HWP47	Yes	76HW03	B6HW03	MCS-7200	HGA- 6000/6500	Multi-Channel	May 2009
S6HW08		5HWP03	Yes	76HW06	B6HW02	MCS-7163	AMT-50	Multi-Channel	May 2009
S6HW09		5HWP42	Yes	76HW03	B6HW03	MCS-7200	HGA-7001	Multi-Channel	Dec 2009
S6HW10		5HWP52	Yes	76HW06	B6HW02	MCS-7163	HGA-7001	Multi-Channel	Dec 2009

SBB	TAP	CLASSIC	I4 PROVEN	SWIFT64	AVIONICS	MODEL NAME	ANTENNA	NO CHANNELS	DATE
S6HW11		5HWP53	Yes	76HW06	B6HW02	MCS-7147	HGA-7001	Multi-Channel	Dec 2009
S6HW12		5HWP54 5HWP63	Yes	76HW07	B6HW01	MCS-7120	HGA-7001	Multi-Channel	Oct 2010
S6HW13		5HWP55 5HWP64	Yes	76HW07	B6HW01	MCS-7120	AMT-3800	Multi-Channel	Oct 2010
S6HW14	002	5HWP45	Yes	76HW06	B6HW02	MCS-7147	AMT-3800	Multi-Channel	July 2010
S6HW15	002	5HWP44	Yes	76HW06	B6HW02	MCS-7163	AMT-3800	Multi-Channel	July 2010
S6HW16		5HWP43	Yes	76HW03	B6HW03	MCS-7200	AMT-3800	Multi-Channel	July 2010
S6HW17		5HWP56 5HWP65	Yes	76HW07	B6HW01	MCS-7120	AMT-700	Multi-Channel	Oct 2010
S6HW18	002	5HWP57	Yes	76HW06	B6HW02	MCS-7147	AMT-700	Multi-Channel	July 2010
S6HW19	002	5HWP58	Yes	76HW06	B6HW02	MCS-7163	AMT-700	Multi-Channel	July 2010
S6HW20		5HWP59	Yes	76HW03	B6HW03	MCS-7200	AMT-50	Multi-Channel	July 2010
S6HW21		5HWP60	Yes	76HW03	B6HW03	MCS-7200	AMT-700	Multi-Channel	July 2010
S6HW22		5HWP29	Yes	N/A	B6HW02	MCS-7147	CMA-2102SB	Multi-Channel	Apr 2013

SBB	TAP	CLASSIC	I4 PROVEN	SWIFT64	AVIONICS	MODEL NAME	ANTENNA	NO CHANNELS	DATE
S6HW23		5HWP67	Yes	N/A	B6HW02	MCS-7147	Ball Airlink HGAS	Multi-Channel	Apr 2019
S6HW24	001 002	N/A	Yes	N/A	B6HW04	Aspire 400	AMT-3800	Multi-Channel	Oct 2020
S6HW25	001 002	N/A	Yes	N/A	B6HW04	Aspire 400	HGA-7001	Multi-Channel	Oct 2020
S7HW01	001 002	N/A	Yes	N/A	B7HW01	Aspire 400	AMT-1800	Multi-Channel	Oct 2020
S7HW02	001 002	N/A	Yes	N/A	B7HW01	Aspire 400	CMA-2200SB	Multi-Channel	Oct 2020
Lufthansa Technik									
S6LF01		5HWP29	Yes	N/A	B6HW02	MCS-7147	CMA-2102SB	Multi-Channel	Sep 2009
S6LF02		5HWP04	Yes	N/A	B6HW02	MCS-7163	CMA-2102SB	Multi-Channel	July 2010
S6LF03		5LFP01	Yes	76LF01	B6ES04	HSD-440	HGA-7001	Multi-Channel	Sep 2011
S6LF04		5LFP02	Yes	76LF02	B6HW03	MCS-7200	Ball Airlink HGAS	Multi-channel	June 2012
Rockwell Collins									
S6RK01		5RKP19	Yes	76RK06	B6RK01	SRT-2100B	AMT-50	Multi-Channel	May 2009

SBB	TAP	CLASSIC	I4 PROVEN	SWIFT64	AVIONICS	MODEL NAME	ANTENNA	NO CHANNELS	DATE
S6RK02		5RKP17	Yes	76RK06	B6RK01	SRT-2100B	HGA-7001	Multi-Channel	May 2009
S6RK03		5RKP22*	Yes	76RK02	B6RK02	SAT-906B	HGA-7001	Multi-Channel	Dec 2009
S6RK04		5RKP23	Yes	76RK02	B6RK02	SAT-906B	CMA-2102SB	Multi-Channel	Dec 2009
S6RK05		5RKP21	Yes	76RK06	B6RK01	SRT-2100B	CMA-2102SB	Multi-Channel	Jan 2010
S6RK06		5RKP16	Yes	76RK06	B6RK01	SRT-2100B	AMT-3800	Multi-Channel	Feb 2010
S6RK07		5RKP26	Yes	Na	B6RK03	SAT-2200	HGA-7001	Multi-Channel	Jun 2011
S6RK08		5RKP24*	Yes	76RK02	B6RK02	SAT-906B	AMT-50	Multi-Channel	Sep 2011
S6RK09		5RKP27	Yes	76RK08	B6RK05	SAT-2200A	HGA-7001	Multi-Channel	Aug 2014
S6RK10		5RKP28*	Yes	76RK06	B6RK01	SAT-2100B	AMT-700	Multi-Channel	Mar 2012
S6RK11		5RKP29	Yes	76RK06	B6RK01	SAT-2100B	HGA-7000	Multi-Channel	Nov 2011
S6RK12		5RKP30*	Yes	NA	B6RK04	SAT-2200	HGA-7001	Multi-Channel	Feb 2012
S6RK13		5RKP26*	Yes	NA	B6RK03	SAT-2200	HGA-7001	Multi-Channel	Feb 2012

SBB	TAP	CLASSIC	I4 PROVEN	SWIFT64	AVIONICS	MODEL NAME	ANTENNA	NO CHANNELS	DATE
S6RK14		5RKP31	Yes	76RK11	B6RK06	SAT-2200-2	AMT-700	Multi-Channel	July 2012
S6RK15		5RKP32	Pending Flight Trial	N/A	B6RK04	SAT-2200	CMA-2102SB	Multi-Channel	PCTA April 2012
S6RK16		5RKP33	Pending Flight Trial	76RK02	B6RK02	SAT-906B	AMT-700	Multi-Channel	Sep 2012
S6RK17		5RKP36	Yes	N/A	B6RK04	SAT-2200-2	AMT-3800	Multi-Channel	January 2018
S6RK18		5RKP37	Yes	76RK13	B6RK06	SAT-2200-2	AMT-3800	Multi-Channel	March 2017
S6RK19		5RKP38	Yes	N/A	B6RK07	SAT-2200B	HGA-7001	Multi-Channel	August 2017
Thales Avionics Ltd									
S6TH01		Pending (5THP02) *	Yes	N/A	B6TH01	TopFlight	AMT-3800	Multi-Channel	May 2009
S6TH03		5THP01	Yes	N/A	B6TH01	TopFlight	HGA-7001	Multi-Channel	May 2010
S7TH01		N/A	N/A	N/A	B7TH01	TopFlight	AMT-3500	Single Channel	Jan 2009
S6TH04		5THP01	Yes	N/A	B6TH01	TopFlight	HGA-7001	Multi-Channel	Dec 2011
S6TH05		5THP03	Yes	N/A	B6TH02	Thales TopFlight	CMA-2102SB	Multi-Channel	Jan 2012

SBB	TAP	CLASSIC	I4 PROVEN	SWIFT64	AVIONICS	MODEL NAME	ANTENNA	NO CHANNELS	DATE
S6TH06		5THP04	Yes	N/A	B6TH02	Thales TopFlight	HGA-7001	Multi-Channel	Feb 2012
Thrane & Thrane AS									
S6TT01		N/A	N/A	N/A	B6TT01	Aviator 350/350D	AMT-50	Single Channel	May 2009
S6TT02		N/A	N/A	N/A	B6TT01	Aviator 350/350D	HGA-6000/6500	Single Channel	Jun 2009
S6TT03		5TTP12	Yes	76TT12	B6TT02	Aviator 700/700D	AMT-50	Multi-Channel	Jan 2010
S6TT04		5TTP14	Yes	76TT12	B6TT02	Aviator 700/700D	HGA-7000	Multi-Channel	Jan 2010
S7TT01		N/A	N/A	N/A	B7TT01	Aviator 300/300D	TT-5006A	Single Channel	Nov 2008
S15TT01		N/A	N/A	N/A	B15TT01	Aviator 200/200D	TT-3002	Single Channel	Oct 2010
S6TT05		N/A	N/A	N/A	B6TT01	Aviator 350/350D	AMT-700	Single Channel	Oct 2011
S6TT06		N/A	N/A	N/A	B6TT01	Aviator 350/350D	HGA-7001	Single Channel	Nov 2011
S6TT07		5TTP20	Yes	76TT30	B6TT02	Aviator 700/700D	AMT-700	Multi-Channel	Mar 2012
S7TT02		N/A	Yes	N/A	B7TT01	Aviator 300/300D	IGA-5001	Single Channel	Mar 2012

SBB	TAP	CLASSIC	I4 PROVEN	SWIFT64	AVIONICS	MODEL NAME	ANTENNA	NO CHANNELS	DATE
S6TT08		N/A	Yes	N/A	B6TT01	Aviator 350/350D	CMA-2102	Single Channel	Mar 2012
S6TT09		N/A	Yes	N/A	B6TT01	Aviator 350/350D	HGA-7000	Single Channel	Mar 2012
S6TT10		5TTP21	Yes	76TT31	B6TT02	Aviator 700/700D	HGA-6000	Multi-Channel	Mar 2012
S6TT11		N/A	Yes	Na	B6TT01	Aviator 350/350D	AMT-3800	Single-Channel	Sep 2012
S6TT12		5TTP22	Yes	76TT32	B6TT02	Aviator 700/700D	HGA-7001	Multi-Channel	Nov 2012
S15TT02		N/A	Yes	N/A	B15TT01	Aviator 200/200D	LGA-3000	Single Channel	Dec 2013
S6TT13		5TTP23	Yes	76TT32	B6TT02	Aviator 700/700D	BALL Airlink HGAS	Multi-Channel	Dec 2013
S6TT14	002 003	N/A	Yes	N/A	B6TT03	Aviator 700S	HGA-7001	Multi-Channel	Sept 2022
S4TT01	003	N/A	Yes	N/A	B4TT01	Aviator 200S	HELGA (LGA-5005)	Single-Channel	April 2020 Revised: 28/01/2022

* Classic Interworking Flight Trial required on 1st Installation. ** System PIM data required on 1st Installation

3. TEST SYSTEM SUMMARY TABLE

SBB	CLASSIC	I4 PROVEN	SWIFT64	AVIONICS	MODEL NAME	ANTENNA	COMMENTS
S6TH22	Pending	N/A	N/A	B6TH01	TopFlight	Racal Helix "Land Test"	Part No: 1616-000 12dBi Gain
S6HW29	5HWP51	Yes	76HW07 76HW06 76HW03	B6HW03 B6HW02 B6HW01	MCS-7200 MCS-7163 MCS-7147 MCS-7120	Racal Helix "Land Test"	Part No: 1616-000 12dBi Gain
S6ES27	5ESP10	Yes	76ES10 76ES09 76ES08	B6ES04 B6ES03 B6ES02	HSD-440 HSD-400 HSD-400i	Seavey Model: 9227- 800/810 "Land Test"	Part No: 1152-A-0450 16dBi Gain*: A Mandatory, 4dB attenuation is required in both the Transmit & Receive paths.

* The nominal SBB Class 6 Transmit Power is 20dBW (using a 12dBi Antenna Gain) and a typical Receive C/No of 64dB/Hz.

Note:

Care should be exercised in matching non-standard SBB configurations, as any SBB Avionics not operated with respect to the nominal/typical operating range (for both the transmit and receive capabilities) will result in unrealistic/unrepeatable data being obtained compared to the normal operation. Furthermore, increasing the transmit EIRP beyond the nominal range will result in a degradation in QoS.

4. SWIFTBROADBAND TYPE APPROVED SYSTEMS

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6B001 Class 6, Multi-Channel 18th May 2010 Boeing	AHBA01	Ball Aerospace & Technologies Corp	Airlink HGAS	DTFCM01	COM DEV International Ltd	Type F	B6ES04	EMS Technologies Canada Ltd	HSD-440	6
							Associated Systems			
							Aero Classic 5BOP20 I4 Operation		Swift64 76BO20	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6B002 Class 6, Multi-Channel 23rd July 2010	AHBA01	Ball Aerospace & Technologies Corp	Airlink HGAS	DTFCM01	COM DEV International Ltd	Type F	B6ES03	EMS Technologies Canada Ltd	HSD-400	6
							Associated Systems			



Boeing							Aero Classic 5BOP21 I4 Operation	Swift64 76BO20
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TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6BO03 Class 6, Multi-Channel 17 th January 2012 Boeing	AHCM01	CMC Electronics	CMA- 2102SB	DTFCM01	COM DEV International Ltd	Type F	B6TH02	Thales	TopFlight	6
							Associated Systems			
							Aero Classic 5BOP22		N/A	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S7BO01 Class 7, Single-Channel 7 th June 2012 Boeing	AICM02	CMC Electronics	CMA- 2200SB	DTFCM01	COM DEV International Ltd	Type F	B7TH02	Thales	TopFlight	7
							Associated Systems			
							Aero Classic 5BOP23		N/A	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S7B002 Class 7, Multi-Channel 7 th June 2012 Boeing	AICM03	CMC Electronics	CMA- 2200SB	DTFCM01	COM DEV International Ltd	Type F	B7TH02	Thales	TopFlight	7
							Associated Systems			
							Aero Classic 5BOP24		N/A	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6CH01 Class 6, Multi-Channel 29 th May 2009 Omnipless/ Chelton Inc /Cobham	AHCH02	Omnipless/ Chelton Inc/ Cobham	HGA-7000	DTACH01 (HPA-7450)	DAU:7060 Omnipless/ Chelton Inc/ Cobham	Type A*	B6CH01	Omnipless/ Chelton Inc/ Cobham	SDU- 7320, 7330.	6
				DTACH02 (HPA-7450)	DAU: 7050 COM DEV International Ltd	Modified Type A	Associated Systems			
				DTFCM01	DAU:7070	Type F	None		None	

				(HPA-7400) (HPA-7450)	COM DEV International Ltd			
Type A*: The DLNA has been assessed by Inmarsat as meeting the extended frequency band requirements (similar to a Modified Type A).								

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6CH02 Class 6, Multi-Channel 29 th May 2009 Omnipless/ Chelton Inc /Cobham	AHCH04	Omnipless/ Chelton Inc/ Cobham	HGA-7001	DTACH01 (HPA-7450)	DAU:7060 Omnipless/ Chelton Inc/ Cobham	Type A*	B6CH01	Omnipless/ Chelton Inc/ Cobham	SDU- 7320, 7330.	6
				DTACH02 (HPA-7450)	DAU: 7050 COM DEV International Ltd	Modified Type A	Associated Systems			
				DTFCM01 (HPA-7400) (HPA-7450)	DAU:7070 COM DEV International Ltd	Type F	None	None		
Type A*: The DLNA has been assessed by Inmarsat as meeting the extended frequency band requirements (similar to a Modified Type A).										

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class

S6CH03 Class 6, Multi-Channel 29 th May 2009 Omnipless/ Chelton Inc /Cobham	AHCH03	Omnipless/ Chelton Inc/ Cobham	HGA-8000	DTFCM01 (HPA-7400)	DAU:7070 COM DEV International Ltd	Type F	B6CH01	Omnipless/ Chelton Inc/ Cobham	SDU- 7320, 7330.	6	
							Associated Systems				
							None				None
Type A*: The DLNA has been assessed by Inmarsat as meeting the extended frequency band requirements (similar to a Modified Type A).											

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA				
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class	
S6CH04 Class 6, Single-Channel 2 nd Sept 2009 Omnipless/ Chelton Inc /Cobham	AHCH01	Omnipless/ Chelton Inc/ Cobham	HGA-6000 HGA-6500	DTACH03	Omnipless/ Chelton Inc/ Cobham	Mod Type A*	B6CH01	Omnipless/ Chelton Inc/ Cobham	SDU- 7320, 7330.	6	
			Different Radome Materials				Associated Systems				
			HLD-7260 Integrated: HPA, LNA & Diplexer. (single channel)				None				None
Type A*: The DLNA has been assessed by Inmarsat as meeting the extended frequency band requirements (similar to a Modified Type A).											

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA				
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class	
S6CH05 Class 6, Single-Channel 4 th Sept 2009 Omnipless/ Chelton Inc /Cobham	AHCH02	Omnipless/ Chelton Inc/ Cobham	HGA-7000	DTACH03	Omnipless/ Chelton Inc/ Cobham	Mod Type A*	B6CH01	Omnipless/ Chelton Inc/ Cobham	SDU- 7320, 7330.	6	
							Associated Systems				
							None		None		
Type A*: The DLNA has been assessed by Inmarsat as meeting the extended frequency band requirements (similar to a Modified Type A).											

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA				
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class	
S6CH06 Class 6, Single-Channel 4 th Sept 2009 Omnipless/ Chelton Inc /Cobham	AHCH04	Omnipless/ Chelton Inc/ Cobham	HGA-7001	DTACH03	Omnipless/ Chelton Inc/ Cobham	Mod Type A*	B6CH01	Omnipless/ Chelton Inc/ Cobham	SDU- 7320, 7330.	6	
							Associated Systems				
							None		None		
Type A*: The DLNA has been assessed by Inmarsat as meeting the extended frequency band requirements (similar to a Modified Type A).											

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6CH07 Class 6, Multi-Channel 25th Nov 2009 Omnipless/ Chelton Inc /Cobham	AHCH01	Omnipless/ Chelton Inc/ Cobham	HGA-6000 HGA-6500 Different Radome Materials	DTACH01 (HPA-7450)	DAU:7060 Omnipless/ Chelton Inc/ Cobham	Type A*	B6CH01	Omnipless/ Chelton Inc/ Cobham	SDU- 7320, 7330.	6
				DTACH02 (HPA-7450)	DAU: 7050 COM DEV International Ltd	Modified Type A	Associated Systems			
				DTFCM01 (HPA-7400) (HPA-7450)	DAU:7070 COM DEV International Ltd	Type F	None	None		
Type A*: The DLNA has been assessed by Inmarsat as meeting the extended frequency band requirements (similar to a Modified Type A).										

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6CH08 Class 6, Single-Channel 26th Nov 2010	AHCH01	Omnipless/ Chelton Inc/ Cobham	HGA-6000 HGA-6500 Different Radome Material	DTACH03 HLD-7260 (single channel)	Omnipless/ Chelton Inc/ Cobham	Mod Type A*	B6CH02	Omnipless/ Chelton Inc/ Cobham	SDU-7315	6
								Associated Systems		

Omnipless/ Chelton Inc /Cobham							None	None
Type A*: The DLNA has been assessed by Inmarsat as meeting the extended frequency band requirements (similar to a Modified Type A).								

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA				
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class	
S6CH13 Class 6, Single-Channel 9 th May 2019 Omnipless/ Chelton Inc /Cobham	AHCH03	Omnipless/ Chelton Inc/ Cobham	HGA-8000	DTSTT01	Thrane & Thrane AS	Type 'S'	B6TT01	Omnipless/ Chelton Inc/ Cobham	Aviator 350/350D	6	
				TT-5016A Integrated HPA, LNA & Diplexer.			Associated Systems				
							None		None		

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA					
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class		
S7CH01 Class 7, Multi-Channel 3 rd June 2010 Omnipless/ Chelton Inc /Cobham	AICH02	Omnipless/ Chelton Inc/ Cobham	IGA-5001	DTACH01 (HPA-7450)	DAU:7060 Omnipless/ Chelton Inc/ Cobham	Type A*	B7CH01	Omnipless/ Chelton Inc/ Cobham	SDU- 7320, 7330.	7		
				DTACH02					DAU: 7050 COM DEV International Ltd	Modified Type A	Associated Systems	

				(HPA-7450)					
				DTFCM01 (HPA-7400) (HPA-7450)	DAU:7070 COM DEV International Ltd	Type F	None	None	
				DTACH03 (HLD-7260) (single channel)	Omnipless/ Chelton Inc/ Cobham	Mod Type A*			

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA				
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class	
S7CH02 Class 7, Single-Channel 17 th Dec 2009 Omnipless/ Chelton Inc /Cobham	AICH01	Omnipless /Chelton Inc /Cobham	IGA-5006	DTACH03 HLD-7260 (single channel)	Omnipless/ Chelton Inc/ Cobham	Mod Type A*	B7CH01	Omnipless/ Chelton Inc/ Cobham	SDU- 7320, 7330.	7	
				DTACH01 (HPA-7450)			DAU:7060 Omnipless/ Chelton Inc/ Cobham		Associated Systems		
									None	None	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class

S7CH03 Class 7, Single-Channel 26 th Nov 2010 Omnipless/ Chelton Inc /Cobham	AICH01	Omnipless /Chelton Inc /Cobham	IGA-5006	DTACH03 HLD-7260 (single channel)	Omnipless/ Chelton Inc/ Cobham	Mod Type A*	B7CH02	Omnipless/ Chelton Inc/ Cobham	SDU-7315	7
							Associated Systems			
							None		None	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S7CH04 Class 7, Single-Channel 6 th Dec 2011 Omnipless/ Chelton Inc /Cobham	AICH02	Omnipless /Chelton Inc /Cobham	IGA-5001	DTACH03 HLD-7260 (single channel)	Omnipless/ Chelton Inc/ Cobham	Mod Type A*	B7CH02	Omnipless/ Chelton Inc/ Cobham	SDU-7315	7
							Associated Systems			
							None		None	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class

S15CH01 Class 15 Single-Channel 24 th Feb 2011 Omnipless/ Chelton Inc /Cobham	ALCH01	Omnipless /Chelton Inc /Cobham	LGA-3000	DTACH03 HLD-7260 (Single channel)	Omnipless/ Chelton Inc/ Cobham		B15CH01	Omnipless/ Chelton Inc/ Cobham	SDU-7310.	15
							Associated Systems			
							None		None	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6CH09 Class 6, Multi-Channel (4xSBB) 13th April 2012 Omnipless/ Chelton Inc /Cobham	AHCH02	Omnipless/ Chelton Inc/ Cobham	HGA-7000	DTFCM01	DAU:7070 COM DEV International Ltd	Type F	B6CH03	Omnipless/ Chelton Inc/ Cobham	SDU-7330-004.	6
							Associated Systems			
							None		None	

	ANTENNA	DLNA	AVIONICS/HPA
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TYPE APPROVED SBB SYSTEMS	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class				
S6CH10 Class 6, Multi-Channel (4xSBB) 13th April 2012 Omnipless/ Chelton Inc /Cobham	AHCH04	Omnipless/ Chelton Inc/ Cobham	HGA-7001	DTFCM01	DAU:7070 COM DEV International Ltd	Type F	B6CH03	Omnipless/ Chelton Inc/ Cobham	SDU-7330-004.	6				
							Associated Systems							
							None				None			

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA							
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class				
S6CH11 Class 6, Multi-Channel (4xSBB) 13th April 2012 Omnipless/ Chelton Inc /Cobham	AHCH01	Omnipless/ Chelton Inc/ Cobham	HGA-6000 HGA-6500	DTFCM01	DAU:7070 COM DEV International Ltd	Type F	B6CH03	Omnipless/ Chelton Inc/ Cobham	SDU-7330-004.	6				
							Associated Systems							
							None				None			

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6CH012 Class 6, Single-Channel	AHES02	EMS Technologies Canada Ltd	AMT-50	DTACH03 HLD-7260	Omnipless/ Chelton Inc/ Cobham	Mod Type A*	B6CH01	Omnipless/ Chelton Inc/ Cobham	SDU- 7320, 7330.	6
20 th April 2012 Omnipless/ Chelton Inc /Cobham				Integrated: HPA, LNA & Diplexer. (Single channel)			Associated Systems			
							None		None	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S7CH05 Class 7, Multi-Channel	AICM03	CMC Electronics	CMA- 2200SB	DTFCD01	COM DEV International Ltd	Type F	B7CH03	Omnipless/ Chelton Inc/ Cobham	SDU-7330- 004	7
29 th May 2012 Omnipless/ Chelton Inc /Cobham							Associated Systems			
							None		None	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA						
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class			
S7CH06 Class 7, Multi-Channel 29 th May 2012 Omnipless/ Chelton Inc /Cobham	AICH02	Omnipless/ Chelton Inc/ Cobham	IGA-5001	DTFCD01	COM DEV International Ltd	Type F	B7CH03	Omnipless/ Chelton Inc/ Cobham	SDU-7330- 004	7			
							Associated Systems						
							None				None		

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA					
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class		
S6ES01 Class 6, Multi-Channel 28 th May 2008 EMS Technologies Canada Ltd,	AHES02	EMS Technologies Canada Ltd	AMT-50	DTAES01	EMS Technologies Canada Ltd	ARINC 741 Type A* (Cambridge)	B6ES02	EMS Technologies Canada Ltd	HSD-400i	6		
				Associated Systems								
				Aero Classic None		Swift64 76ES09						
Type A*: The DLNA has been assessed by Inmarsat as meeting the extended frequency band requirements (similar to a Modified Type A).												

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA				
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class	
S6ES02 Class 6, Multi-Channel 28 th May 2008 EMS Technologies Canada Ltd,	AHES02	EMS Technologies Canada Ltd	AMT-50	DTAES01	EMS Technologies Canada Ltd	ARINC 741 Type A* (Cambridge)	B6ES03	EMS Technologies Canada Ltd	HSD-400	6	
								Associated Systems			
				DTFCM01	COM DEV International Ltd	Type F	Aero Classic None		Swift64 76ES08		
Type A*: The DLNA has been assessed by Inmarsat as meeting the extended frequency band requirements (similar to a Modified Type A).											

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6ES03 Class 6, Multi-Channel 8 th Dec 2008 EMS Technologies Canada Ltd,	AHES01	EMS Technologies Canada Ltd	AMT-3800	DTAES01	EMS Technologies Canada Ltd	ARINC 741 Mod Type A	B6ES02	EMS Technologies Canada Ltd	HSD-400i	6
								Associated Systems		
TAP 002: Class 6 HDR (13 th June 2018)				DTFCM01	COM DEV International	Type F				

TAP 003: Class 6-2 Helo (13 th June 2018)					Ltd		Aero Classic None	Swift64 76ES09
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Type A*: The DLNA has been assessed by Inmarsat as meeting the extended frequency band requirements (similar to a Modified Type A).

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6ES04 Class 6, Multi-Channel 8 th Dec 2008 EMS Technologies Canada Ltd,	AHES01	EMS Technologies Canada Ltd	AMT-3800	DTAES01	EMS Technologies Canada Ltd	ARINC 741 Mod Type A	B6ES03	EMS Technologies Canada Ltd	HSD-400	6
				DTFCM01	COM DEV International Ltd	Type F	Associated Systems			
							Aero Classic None	Swift64 76ES08		

Type A*: The DLNA has been assessed by Inmarsat as meeting the extended frequency band requirements (similar to a Modified Type A).

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6ES05 Class 6, Multi-Channel	AHES01	EMS Technologies Canada Ltd	AMT-3800	DTAES01	EMS Technologies Canada Ltd	ARINC 741 Mod Type A	B6ES04	EMS Technologies Canada Ltd	HSD-440	6
							Associated Systems			

29 th Oct 2010				DTFCM01	COM DEV International Ltd	Type F	Aero Classic 5ESP08 (Mk1) 5ESP14 (Mk2) I4 Operation	Swift64 76ES10
EMS Technologies Canada Ltd,								

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA				
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class	
S6ES06 Class 6, Multi-Channel 29 th Oct 2010 EMS Technologies Canada Ltd,	AHES02	EMS Technologies Canada Ltd	AMT-50	DTFCM01	COM DEV International Ltd	Type F	B6ES04	EMS Technologies Canada Ltd	HSD-440	6	
							Associated Systems				
							Aero Classic 5ESP09 (Mk1) 5ESP15 (Mk2) I4 Operation		Swift64 76ES10		
Type A*: The DLNA has been assessed by Inmarsat as meeting the extended frequency band requirements (similar to a Modified Type A).											

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class

<p>S6ES07 Class 6, Multi-Channel</p> <p>22nd July 2010</p> <p>EMS Technologies Canada Ltd,</p>	AHES03	EMS Technologies Canada Ltd	AMT-700	DTFCM01	COM DEV International Ltd	Type F	B6ES02	EMS Technologies Canada Ltd	HSD-400i	6		
											Associated Systems	
											Aero Classic None	Swift64 76ES09
TAP 002: Class 6 HDR (13 th June 2018)												
TAP 003: Class 6-2 Helo (13 th June 2018)												

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA					
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class		
<p>S6ES08 Class 6, Multi-Channel</p> <p>29th Oct 2010</p> <p>EMS Technologies Canada Ltd,</p>	AHES03	EMS Technologies Canada Ltd	AMT-700	DTFCM01	COM DEV International Ltd	Type F	B6ES04	EMS Technologies Canada Ltd	HSD-440	6		
											Associated Systems	
											Aero Classic 5ESP13 (Mk1) 5ESp16 (Mk2) I4 Operation	Swift64 76ES10

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S7ES01 Class 7, Multi-Channel 14 th Aug 2009 EMS Technologies Canada Ltd,	AIES01	EMS Technologies Canada Ltd	AMT-3500	DTAES01	EMS Technologies Canada Ltd	ARINC 741 Mod Type A	B7ES01	EMS Technologies Canada Ltd	HSD-400i	7
				Associated Systems						
				DTFM01	COM DEV International Ltd	Type F	Aero Classic None	Swift64 None		

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S15ES01 Class 15, Single- Channel 5 th May 2011 EMS Technologies Canada Ltd,	S65-8282- 101	Sensor-System	Sensor- System Omni	?	EMS Technologies Canada Ltd		B15ES01	EMS Technologies Canada Ltd	HSD- Xss1	15
				Associated Systems						
								Aero Classic None	Swift64 None	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA					
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class		
S6ES09 Class 6, Multi-Channel 1 st March 2012 EMS Technologies Canada Ltd,	AHES02	EMS Technologies Canada Ltd	AMT-50	DTFCM01	COM DEV International Ltd	Type F	B6ES05	EMS Technologies Canada Ltd	HSD-400i + 2x HSDXi	6		
							Associated Systems					
							Aero Classic N/A		Swift64 76ES11			

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA					
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class		
S7ES02 Class 7, Single-Channel 5 th May 2011 EMS Technologies Canada Ltd,	AIES01	EMS Technologies Canada Ltd	AMT-3500	DTES01	EMS Technologies Canada Ltd	Type S	B7ES02	EMS Technologies Canada Ltd	HSD-200	7		
							Associated Systems					
							Aero Classic None		Swift64 None			

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA						
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class			
S7ES03 Class 7, Single-Channel June 2014 EMS Technologies Canada Ltd,	AIES02	EMS Technologies Canada Ltd	AMT-1800	DTES01	EMS Technologies Canada Ltd	Type S	B7ES02	EMS Technologies	HSD-200	7			
							Associated Systems						
							Aero Classic None				Swift64 None		

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA						
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class			
S6ES10 Class 6, Single-Channel 5 th May 2011 EMS Technologies Canada Ltd,	AHES01	EMS Technologies Canada Ltd	AMT-3800	DTES01	EMS Technologies Canada Ltd	Type S	B6ES06	EMS Technologies Canada Ltd	HSD-200	6			
							Associated Systems						
							Aero Classic None				Swift64 TBD		

	ANTENNA	DLNA	AVIONICS/HPA
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TYPE APPROVED SBB SYSTEMS	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class			
S6ES11 Class 6, Single-Channel 5 th May 2011 EMS Technologies Canada Ltd,	AHES03	EMS Technologies Canada Ltd	AMT-700	DTES01	EMS Technologies Canada Ltd	Type S	B6ES06	EMS Technologies Canada Ltd	HSD-200	6			
							Associated Systems						
							Aero Classic None				Swift64 TBD		

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA						
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class			
S15ES02 Class 15, Single- Channel 9 th May 2014 EMS Technologies Canada Ltd,	ALAA01	AeroAntenna Technology Inc	AT1675-180	DTSES01	EMS Technologies Canada Ltd	Type S	B15ES01	EMS Technologies Canada Ltd	HSD- Xss1	15			
							Associated Systems						
							Aero Classic None				Swift64 None		

	ANTENNA	DLNA	AVIONICS/HPA
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TYPE APPROVED SBB SYSTEMS	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6ES12 Class 6, Multi-Channel 25th Sep 2015 EMS Technologies Canada Ltd,	AHCM01	CMC Electronics	CMA- 2102SB	DTFCD01	COM DEV International Ltd	Type F	B6ES04	EMS Technologies	HSD-440	6
							Associated Systems			
							Aero Classic 5ESP17		Swift64 76ES16	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6ES13 Class 6, Multi-Channel 1 st December 2016 EMS Technologies Canada Ltd,	AHES02	EMS Technologies Canada Ltd	AMT-50	DTFCM01	COM DEV International Ltd	Type F	B6ES07	EMS Technologies Canada Ltd	HSD-440 + HSDXi (x2)	6
							Associated Systems			
							Aero Classic 5ESP18		Swift64 76ES17	

	ANTENNA	DLNA	AVIONICS/HPA
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TYPE APPROVED SBB SYSTEMS	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class	
S6ES14 Class 6, Multi-Channel 1 st December 2016 EMS Technologies Canada Ltd,	AHES01	EMS Technologies Canada Ltd	AMT-3800	DTFCM01	COM DEV International Ltd	Type F	B6ES07	EMS Technologies Canada Ltd	HSD-440 + HSDXi (x2)	6	
							Associated Systems				
							Aero Classic 5ESP19				Swift64 76ES17

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA				
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class	
S6ES15 Class 6, Multi-Channel 1 st December 2016 EMS Technologies Canada Ltd,	AHES03	EMS Technologies Canada Ltd	AMT-700	DTFCM01	COM DEV International Ltd	Type F	B6ES07	EMS Technologies Canada Ltd	HSD-440 + HSDXi (x2)	6	
							Associated Systems				
							Aero Classic 5ESP20				Swift64 76ES17

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S15ES03 Class 15, Single-Channel 25th September 2015 EMS Technologies Canada Ltd (Bendix King)	ALAA02	AeroAntenna Technology Inc	AT1595-13	NA	NA	NA	B15ES01	EMS Technologies Canada Ltd	HSD-Xss1	15
							Associated Systems			
							Aero Classic None		Swift64 None	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6HW01 Class 6, Multi-Channel 29 th Oct 2010 Honeywell Aerospace	AHES02	EMS Technologies Canada Ltd	AMT-50	DTFCM01	COM DEV International Ltd	Type F	B6HW01	Honeywell Aerospace	HD-710	6
							Associated Systems			
							Aero Classic 5HWP41 (Ph3) 5HWP61 (Ph4) I4 Operation		Swift64 76HW07	

Avionics Model Identification: MCS-7120 consists of HD-710 (SwiftBroadband/Swift64/Classic) "Standalone".

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA				
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class	
S6HW02 Class 6, Multi-Channel 15 th August 2008 Honeywell Aerospace	AHES02	EMS Technologies Canada Ltd	AMT-50	DTFCM01	COM DEV International Ltd	Type F	B6HW02	Honeywell Aerospace	HD-710	6	
							Associated Systems				
							Aero Classic 5HWP17 I4 Operation		Swift64 76HW06		

Avionics Model Identification: MCS-7147 consists of an HD-710 (SwiftBroadband/Swift64) + MCS-7000/4000 (Aero Classic)

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA				
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class	
S6HW03 Class 6, Multi-Channel 14 th Nov 2008 Honeywell Aerospace	AHCH01	Omnipless /Chelton Inc /Cobham	HGA-6000 HGA-6500	DTFCM01	COM DEV International Ltd	Type F	B6HW02	Honeywell Aerospace	HD-710	6	
							Associated Systems				
							Aero Classic 5HWP50 I4 Operation		Swift64 76HW06		

Avionics Model Identification: MCS-7163 consists of an HD-710 (SwiftBroadBand/Swift64) + MCS-6000/3000 (Aero Classic)

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6HW04 Class 6, Multi-Channel 14 th Nov 2008 Honeywell Aerospace	AHCH01	Omnipless /Chelton Inc /Cobham	HGA-6000 HGA-6500	DTFCM01	COM DEV International Ltd	Type F	B6HW02	Honeywell Aerospace	HD-710	6
							Associated Systems			
							Aero Classic 5HWP49 I4 Operation		Swift64 76HW06	

Avionics Model Identification: MCS-7147 consists of an HD-710 (SwiftBroadBand/Swift64) + MCS-7000/4000 (Aero Classic)

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6HW05 Class 6, Multi-Channel 29 th Oct 2010 Honeywell Aerospace	AHCH01	Omnipless /Chelton Inc /Cobham	HGA-6000 HGA-6500	DTFCM01	COM DEV International Ltd	Type F	B6HW01	Honeywell Aerospace	HD-710	6
							Associated Systems			
							Aero Classic 5HWP48 (Ph3) 5HWP62 (Ph4) I4 Operation		Swift64 76HW07	

Avionics Model Identification: MCS-7120 consists of an HD-710 “Standalone” (SwiftBroadBand/Swift64/Classic).

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6HW06 Class 6, Multi-Channel 6 th Mar 2009 Honeywell Aerospace	AHCM01	CMC Electronics Inc	CMA-2102SB	DTFCM01	COM DEV International Ltd	Type F	B6HW03	Honeywell Aerospace	MCS-7200	6
							Associated Systems			
							Aero Classic 5HWP30 I4 Operation		Swift64 76HW03	

Avionics Model Identification: MCS-7200 (SwiftBroadband/Swift64/Classic).

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6HW07 Class 6, Multi-Channel 29 th May 09 Honeywell Aerospace	AHCH01	Omnipless /Chelton Inc /Cobham	HGA-6000 HGA- 6500	DTFCM01	COM DEV International Ltd	Type F	B6HW03	Honeywell Aerospace	MCS-7200	6
							Associated Systems			
							Aero Classic 5HWP47 I4 Operation		Swift64 76HW03	

Avionics Model Identification: MCS-7200 (SwiftBroadband/Swift64/Classic).

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6HW08 Class 6, Multi-Channel 29 th May 2009 Honeywell Aerospace	AHES02	EMS Technologies Canada Ltd	AMT-50	DTFCM01	COM DEV International Ltd	Type F	B6HW02	Honeywell Aerospace	HD-710	6
							Associated Systems			
							Aero Classic 5HWP03 I4 Operation		Swift64 76HW06	

Avionics Model Identification: MCS-7163 consists of an HD-710 (SwiftBroadBand/Swift64) + MCS-6000/3000 (Aero Classic)

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6HW09 Class 6, Multi-Channel 15 th Dec 2009 Honeywell Aerospace	AHCH04	Omnipless /Chelton Inc /Cobham	HGA-7001	DTFCM01	COM DEV International Ltd	Type F	B6HW03	Honeywell Aerospace	MCS-7200	6
							Associated Systems			
							Aero Classic 5HWP42 I4 Operation		Swift64 76HW03	

Avionics Model Identification: MCS-7200 (SwiftBroadBand/Swift64/Classic).

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA				
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class	
S6HW10 Class 6, Multi-Channel 16 th Dec 2009 Honeywell Aerospace	AHCH04	Omnipless /Chelton Inc /Cobham	HGA-7001	DTFCM01	COM DEV International Ltd	Type F	B6HW02	Honeywell Aerospace	HD-710	6	
							Associated Systems				
							Aero Classic 5HWP52 I4 Operation		Swift64 76HW06		

Avionics Model Identification: MCS-7163 consists of an HD-710 (SwiftBroadBand/Swift64) + MCS-6000/3000 (Aero Classic)

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA				
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class	
S6HW11 Class 6, Multi-Channel 17 th Dec 2009 Honeywell Aerospace	AHCH04	Omnipless /Chelton Inc /Cobham	HGA-7001	DTFCM01	COM DEV International Ltd	Type F	B6HW02	Honeywell Aerospace	HD-710	6	
							Associated Systems				
							Aero Classic 5HWP53 I4 Operation		Swift64 76HW06		

Avionics Model Identification: MCS-7147 consists of an HD-710 (SwiftBroadBand/Swift64) + MCS-7000/4000 (Aero Classic)

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA				
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class	
S6HW12 Class 6, Multi-Channel 29 th Oct 2010 Honeywell Aerospace	AHCH04	Omnipless /Chelton Inc /Cobham	HGA-7001	DTFCM01	COM DEV International Ltd	Type F	B6HW01	Honeywell Aerospace	HD-710	6	
							Associated Systems				
							Aero Classic 5HWP54 (Ph3) 5HWP63 (Ph4) I4 Operation		Swift64 76HW07		

Avionics Model Identification: MCS-7120 consists of an HD-710 “Standalone” (SwiftBroadBand/Swift64/Classic).

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA				
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class	
S6HW13 Class 6, Multi-Channel 29 th Oct 2010 Honeywell Aerospace	AHES01	EMS Technologies Canada Ltd	AMT-3800	DTFCM01	COM DEV International Ltd	Type F	B6HW01	Honeywell Aerospace	HD-710	6	
							Associated Systems				
							Aero Classic 5HWP55 (Ph3) 5HWP64 (Ph4) I4 Operation		Swift64 76HW07		

Avionics Model Identification: MCS-7120 consists of an HD-710 “Standalone” (SwiftBroadBand/Swift64/Classic).

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6HW14 Class 6, Multi-Channel 22 nd July 2010 Honeywell Aerospace TAP002: Class 6 HDR 13 th June	AHES01	EMS Technologies Canada Ltd	AMT-3800	DTFCM01	COM DEV International Ltd	Type F	B6HW02	Honeywell Aerospace	HD-710	6
							Associated Systems			
							Aero Classic 5HWP45 I4 Operation		Swift64 76HW06	

Avionics Model Identification: MCS-7147 consists of an HD-710 (SwiftBroadBand/Swift64) + MCS-7000/4000 (Aero Classic)

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6HW15 Class 6, Multi-Channel	AHES01	EMS Technologies Canada Ltd	AMT-3800	DTFCM01	COM DEV International Ltd	Type F	B6HW02	Honeywell Aerospace	HD-710	6
							Associated Systems			

S6HW17 Class 6, Multi-Channel 29 th Oct 2010 Honeywell Aerospace	AHES03	EMS Technologies Canada Ltd	AMT-700	DTFCM01	COM DEV International Ltd	Type F	B6HW01	Honeywell Aerospace	HD-710	6
							Associated Systems			
							Aero Classic 5HWP56 (Ph3) 5HWP65 (Ph4) I4 Operation		Swift64 76HW07	

Avionics Model Identification: MCS-7120 consists of an HD-710 “Standalone” (SwiftBroadBand/Swift64/Classic).

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6HW18 Class 6, Multi-Channel 22nd July 2010 Honeywell Aerospace TAP002: Class 6 HDR 13 th June 2018	AHES03	EMS Technologies Canada Ltd	AMT-700	DTFCM01	COM DEV International Ltd	Type F	B6HW02	Honeywell Aerospace	HD-710	6
							Associated Systems			
							Aero Classic 5HWP57 I4 Operation		Swift64 76HW06	

Avionics Model Identification: MCS-7147 consists of an HD-710 (SwiftBroadBand/Swift64) + MCS-7000/4000 (Aero Classic)

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6HW19 Class 6, Multi-Channel 22 nd July 2010 Honeywell Aerospace TAP002: Class 6 HDR 13 th June 2018	AHES03	EMS Technologies Canada Ltd	AMT-700	DTFCM01	COM DEV International Ltd	Type F	B6HW02	Honeywell Aerospace	HD-710	6
							Associated Systems			
							Aero Classic 5HWP58 I4 Operation		Swift64 76HW06	

Avionics Model Identification: MCS-7163 consists of an HD-710 (SwiftBroadBand/Swift64) + MCS-6000/3000 (Aero Classic)

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6HW20 Class 6, Multi-Channel	AHES02	EMS Technologies Canada Ltd	AMT-50	DTFCM01	COM DEV International Ltd	Type F	B6HW03	Honeywell Aerospace	MCS- 7200	6
							Associated Systems			

22 nd July 2010								Aero Classic 5HWP59 I4 Operation	Swift64 76HW06
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Avionics Model Identification: MCS-7200 (SwiftBroadBand/Swift64/Classic).

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6HW21 Class 6, Multi-Channel 22 nd July 2010 Honeywell Aerospace	AHES03	EMS Technologies Canada Ltd	AMT-700	DTFCM01	COM DEV International Ltd	Type F	B6HW03	Honeywell Aerospace	MCS- 7200	6
							Associated Systems			
							Aero Classic 5HWP60 I4 Operation		Swift64 76HW06	

Avionics Model Identification: MCS-7200 (SwiftBroadBand/Swift64/Classic).

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6HW22 Class 6, Multi-Channel	AHCM01	CMC Electronics Inc	CMA-2102SB	DTFCD01	COM DEV International Ltd	Type F	B6HW02	Honeywell Aerospace	HD-710	6
							Associated Systems			

16 th April 2013 Honeywell Aerospace							Aero Classic 5HWP29 I4 Operation Sept 2009	Swift64 None
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Avionics Model Identification: MCS-7147 consists of an HD-710 (SwiftBroadBand) + MCS-7000/4000 (Aero Classic)

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6HW23 Class 6, Multi-Channel 16 th April 2020 Honeywell Aerospace	AHBA01	Ball Aerospace & Technology Corp	Airlink HGAS	DTFCM01	COM DEV International Ltd	Type F	B6HW02	Honeywell Aerospace	HD-710	6
							Associated Systems			
							Aero Classic 5HWP67 I4 Operation April 2020		Swift64 None	

Avionics Model Identification: MCS-7163 consists of an HD-710 (SwiftBroadBand) + MCS-6000/3000 (Aero Classic)

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class

S6HW24 Class 6, Multi-Channel 21 st Oct 2020 Honeywell Aerospace	AHES01	EMS Technologies Canada Ltd.	AMT-3800 (Top Mount)	DTFCM01	COM DEV International Ltd	Type F	B6HW04	Honeywell Aerospace	Aspire 400	6					
							Associated Systems								
							Aero Classic None		Swift64 None						
<table border="1"> <tr> <td>TAP 001</td> <td>HDR</td> <td>21st Oct 2020</td> </tr> <tr> <td>TAP 002</td> <td>SB-S 2.0</td> <td>21st Oct 2020</td> </tr> </table>	TAP 001	HDR	21 st Oct 2020	TAP 002	SB-S 2.0	21 st Oct 2020									
TAP 001	HDR	21 st Oct 2020													
TAP 002	SB-S 2.0	21 st Oct 2020													
I4 Operation October 2020															

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6HW25 Class 6, Multi-Channel 21 st Oct 2020 Honeywell Aerospace	AHCH04	Omnipless/Ch elton Inc/Cobham	HGA-7001 (Top Mount) (Collins:2100C)	DTFCM01	COM DEV International Ltd	Type F	B6HW04	Honeywell Aerospace	Aspire 400	6
Associated Systems							Aero Classic None		Swift64 None	
							I4 Operation N.A			

TAP 001	HDR	21st Oct 2020								
TAP 002	SB-S 2.0	21st Oct 2020								

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA									
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class						
S7HW01 Class 7, Multi-Channel 21 st Oct 2020 Honeywell Aerospace <table border="1"> <tr> <td>TAP 001</td> <td>HDR</td> <td>21st Oct 2020</td> </tr> <tr> <td>TAP 002</td> <td>SB-S 2.0</td> <td>21st Oct 2020</td> </tr> </table>	TAP 001	HDR	21st Oct 2020	TAP 002	SB-S 2.0	21st Oct 2020	AIES02	EMS Technologies Canada Ltd.	AMT-1800 (Top Mount)	DTFCM01	COM DEV International Ltd	Type F	B7HW01	Honeywell Aerospace	Aspire 400	7
	TAP 001	HDR	21st Oct 2020													
	TAP 002	SB-S 2.0	21st Oct 2020													
Associated Systems																
Aero Classic None		Swift64 None														
							I4 Operation N.A									

TYPE APPROVED SBB SYSTEMS			ANTENNA			DLNA			AVIONICS/HPA			
			Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S7HW02 Class 7, Multi-Channel 21 st Oct 2020 Honeywell Aerospace			AICM03	CMC Electronics	CMA-2200SB (Top Mount)	DTFCM01	COM DEV International Ltd	Type F	B7HW01	Honeywell Aerospace	Aspire 400	7
									Associated Systems			
									Aero Classic None		Swift64 None	
TAP 001	HD R	21 st Oct 2020										
TAP 002	SB-S 2.0	21 st Oct 2020										

TYPE APPROVED SBB SYSTEMS			ANTENNA			DLNA			AVIONICS/HPA			
			Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6LF01 Class 6, Multi-Channel			AHCM01	CMC Electronics Inc	CMA-2102SB	DTFCD01	COM DEV International Ltd	Type F	B6HW02	Honeywell Aerospace	HD-710	6
									Associated Systems			

17 th Sept 2009								Aero Classic 5HWP29		Swift64 None
Lufthansa Technik AG								I4 Operation Sept 2009		

Avionics Model Identification: MCS-7147 consists of an HD-710 (SwiftBroadBand) + MCS-7000/4000 (Aero Classic)

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6LF02 Class 6, Multi-Channel 27 th July 2010 Lufthansa Technik AG	AHCM01	CMC Electronics Inc	CMA-2102SB	DTFCD01	COM DEV International Ltd	Type F	B6HW02	Honeywell Aerospace	HD-710	6
							Associated Systems			
							Aero Classic 5HWP04		Swift64 None	
I4 Operation Sept 2009										

Avionics Model Identification: MCS-7163 consists of an HD-710 (SwiftBroadBand) + MCS-6000/3000 (Aero Classic)

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class

S6LF03 Class 6, Multi-Channel 5 th September 2011 Lufthansa Technik AG	AHCH04	Omnipless /Chelton Inc /Cobham	HGA-7001	DTFCD01	COM DEV International Ltd	Type F	B6ES04	EMS Technologies Canada Ltd	HSD-440	6
							Associated Systems			
							Aero Classic 5LFP01 I4 Operation Sept 2011		Swift64 76LF01	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6LF04 Class 6, Multi-Channel June 2012 Lufthansa Technik AG	AHBA01	Ball Aerospace & Technologies Corp.	Airlink HGAS	DTFCD01	COM DEV International Ltd	Type F	B6HW03	Honeywell Aerospace	MCS- 7200	6
							Associated Systems			
							Aero Classic 5LFP02 I4 Operation June 2012		Swift64 76LF02	

	ANTENNA	DLNA	AVIONICS/HPA
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TYPE APPROVED SBB SYSTEMS	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6RK01 Class 6, Multi-Channel 20 th May 2009 Rockwell Collins	AHES02	EMS Technologies Canada Ltd	AMT-50	DTFCM01	COM DEV International Ltd	Type F	B6RK01	Rockwell Collins	SRT-2100B	6
							Associated Systems			
							Aero Classic 5RKP19 I4 Operation July 2009		Swift64 76RK06	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6RK02 Class 6, Multi-Channel 20 th May 2009 Rockwell Collins	AHCH04	Omnipless /Chelton Inc /Cobham	HGA-7001	DTFCM01	COM DEV International Ltd	Type F	B6RK01	Rockwell Collins	SRT-2100B	6
							Associated Systems			
							Aero Classic 5RKP17 I4 Operation July 2009		Swift64 76RK06	

	ANTENNA	DLNA	AVIONICS/HPA
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TYPE APPROVED SBB SYSTEMS	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class						
S6RK03 Class 6, Multi-Channel 2 nd Dec 2009 Rockwell Collins	AHCH04	Omnipless /Chelton Inc /Cobham	HGA-7001	DTFCM01 DTACH01 DAU-7060	COM DEV International Ltd Chelton Inc	Type F Mod Type A*	B6RK02	Rockwell Collins	SAT-906B	6						
							Associated Systems									
							Aero Classic 5RKP22* I4 Operation July 2009		Swift64 76RK02							

* Interworking Flight Test required upon 1st installation.

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA									
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class						
S6RK04 Class 6, Multi-Channel 3 rd Dec 2009 Rockwell Collins	AHCM01	CMC Electronics Inc	CMA-2102SB	DTFCM01 DTACH01 DAU-7060	COM DEV International Ltd Chelton Inc	Type F Mod Type A*	B6RK02	Rockwell Collins	SAT-906B	6						
							Associated Systems									
							Aero Classic 5RKP23 I4 Operation July 2009		Swift64 76RK02							

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6RK05 Class 6, Multi-Channel 12 th Jan 2010 Rockwell Collins	AHCM01	CMC Electronics Inc	CMA-2102SB	DTFCM01	COM DEV International Ltd	Type F	B6RK01	Rockwell Collins	SRT-2100B	6
							Associated Systems			
							Aero Classic 5RKP21 I4 Operation July 2009		Swift64 76RK06	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6RK06 Class 6, Multi-Channel 12 th Feb 2010 Rockwell Collins	AHES01	EMS Technologies Canada Ltd	AMT-3800	DTFCM01	COM DEV International Ltd	Type F	B6RK01	Rockwell Collins	SRT-2100B	6
							Associated Systems			
							Aero Classic 5RKP16 I4 Operation July 2009		Swift64 76RK06	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6RK07 Class 6, Multi-Channel 16 th June 2011 Rockwell Collins	AHCH04	Omniplus /Chelton Inc /Cobham	HGA-7001 (HGA2100A)	DTACH01	Omniplus/ Chelton Inc	Modified Type A	B6RK03	Rockwell Collins	SAT-2200	6
							Associated Systems			
							Aero Classic 5RKP26 I4 Operation July 2011		Swift64 N/A	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6RK08 Class 6, Multi-Channel 2 nd September 2011 Rockwell Collins	AHES02	EMS Technologies Canada Ltd	AMT-50	DTFCD01	COM DEV International Ltd	Type F	B6RK02	Rockwell Collins	SAT-906B	6
							Associated Systems			
							Aero Classic 5RKP24* I4 Operation July 2009		Swift64 76RK02	

* Interworking Flight Test required upon 1st installation.

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6RK09 Class 6, Multi-Channel 13 th August 2014 Rockwell Collins	AHCH04	Omniplus /Chelton Inc /Cobham	HGA-7001 (HGA2100A)	DTFCD01	COM DEV International Ltd	Type F	B6RK05	Rockwell Collins	SAT- 2200A	6
							Associated Systems			
							Aero Classic 5RKP27 I4 Operation Aug 2014		Swift64 76RK08	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6RK10 Class 6, Multi-Channel 7 th March 2012 Rockwell Collins	AHES03	EMS Technologies Canada Ltd	AMT-700	DTFCD01	COM DEV International Ltd	Type F	B6RK01	Rockwell Collins	SAT-2100B	6
							Associated Systems			
							Aero Classic 5RKP28 I4 Operation November 2011		Swift64 76RK06	

* Interworking Flight Test required upon 1st installation.

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6RK11 Class 6, Multi-Channel 21st November 2011 Rockwell Collins	AHES02	Omnipless/Chelton Inc/Cobham	HGA-7000	DTFCD01	COM DEV International Ltd	Type F	B6RK01	Rockwell Collins	SAT-2100B	6
							Associated Systems			
							Aero Classic 5RKP29 I4 Operation November 2011		Swift64 76RK06	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6RK12 Class 6, Multi-Channel 9 th February 2012 Rockwell Collins	AHCH04	Omnipless /Chelton Inc /Cobham	HGA-7001 (HGA2100A)	DTFCD01	COM DEV International Ltd	Type F	B6RK04	Rockwell Collins	SAT-2200	6
							Associated Systems			
							Aero Classic 5RKP30 I4 Operation Feb 2012		Swift64 N/A	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6RK13 Class 6, Multi-Channel 9 th February 2012 Rockwell Collins	AHCH04	Omniplus /Chelton Inc /Cobham	HGA-7001 (HGA2100A)	DTFCD01	COM DEV International Ltd	Type F	B6RK03	Rockwell Collins	SAT-2200	6
							Associated Systems			
							Aero Classic 5RKP26 I4 Operation Feb 2012		Swift64 N/A	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6RK14 Class 6, Multi-Channel 16th July 2012 Rockwell Collins	AHES03	EMS Technologies Canada Ltd	AMT-700	DTFCD01	COM DEV International Ltd	Type F	B6RK06	Rockwell Collins	SAT-2200-2	6
							Associated Systems			
							Aero Classic 5RKP31 I4 Operation July 2012		Swift64 76RK11	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6RK15 Class 6, Multi-Channel PCTA 18th April 2012 Rockwell Collins	AHCM01	CMC Electronics Inc	CMA-2102SB	DTFCD01	COM DEV International Ltd	Type F	B6RK04	Rockwell Collins	SAT-2200	6
							Associated Systems			
							Aero Classic 5RKP32 I4 Operation PCTA		Swift64 NA	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6RK16 Class 6, Multi-Channel 5 th September 2012 Rockwell Collins	AHES03	EMS Technologies Canada Ltd	AMT-700	DTFCD01	COM DEV International Ltd	Type F	B6RK02	Rockwell Collins	SAT-906B	6
							Associated Systems			
							Aero Classic 5RKP33* I4 Operation September 2012		Swift64 76RK02	

* Interworking Flight Test required upon 1st installation.

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6RK17 Class 6, Multi-Channel 29 th January 2018 Rockwell Collins	AHES01	EMS Technologies Canada Ltd	AMT-3800	DTFCD01	COM DEV International Ltd	Type F	B6RK04	Rockwell Collins	SAT-2200	6
							Associated Systems			
							Aero Classic 5RKP36 I4 Operation January 2018		Swift64 N.A.	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6RK18 Class 6, Multi-Channel 28 th March 2017 Rockwell Collins	AHES01	EMS Technologies Canada Ltd	AMT-3800	DTFCD01	COM DEV International Ltd	Type F	B6RK06	Rockwell Collins	SAT-2200- 2	6
							Associated Systems			
							Aero Classic 5RKP37 I4 Operation March 2017		Swift64 76RK13	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6RK19 Class 6, Multi-Channel 19 th July 2017 Rockwell Collins	AHCH04	Omniplus /Chelton Inc /Cobham	HGA-7001 (HGA2100A)	DTFCD01	COM DEV International Ltd	Type F	B6RK07	Rockwell Collins	SAT- 2200B	6
							Associated Systems			
							Aero Classic 5RKP38 I4 Operation August 2017		Swift64 NA	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6TH01 Class 6, Multi-Channel 29 th May 2009 Thales Avionics Ltd	AHES01	EMS Technologies Canada Ltd	AMT-3800	DTFCM01	COM DEV International Ltd	Type F (82161B30)	B6TH01	Thales Avionics Ltd	TopFlight	6
							Associated Systems			
							Aero Classic None I4 Operation July 2009		Swift64 None	

	ANTENNA	DLNA	AVIONICS/HPA
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TYPE APPROVED SBB SYSTEMS	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class						
S6TH03 Class 6, Multi-Channel 17th May 2010 Thales Avionics Ltd	AHCH04	Omnipless /Chelton Inc /Cobham	HGA-7001	DTFCM01	COM DEV International Ltd	Type F (82161B30)	B6TH01 (FMPA)	Thales Avionics Ltd	TopFlight	6						
							Associated Systems									
							Aero Classic 5THP01 I4 Operation July 2009		Swift64 None							

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA									
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class						
S6TH05 Class 6, Multi-Channel 17th January 2012 Thales Avionics Ltd	AHCM01	CMC Electronics	CMA- 2102SB	DTFCM01	COM DEV International Ltd	Type F	B6TH02	Thales	TopFlight	6						
							Associated Systems									
							Aero Classic 5THP01		N/A							

	ANTENNA	DLNA	AVIONICS/HPA
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TYPE APPROVED SBB SYSTEMS	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S7TH01 Class 7, Single-Channel 30 th Jan 2009 Thales Avionics Ltd	AIES01	EMS Technologies Canada Ltd	AMT-3500	DTAES01	Thales Avionics Ltd	ARINC 741 Mod Type A (82161A30)	B7TH01	Thales Avionics Ltd	TopFlight	7
				Associated Systems						
				DTFM01	COM DEV International Ltd	Type F (82161B30)	Aero Classic None		Swift64 None	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6TH06 Class 6, Multi-Channel 23 rd Feb 2012 Thales Avionics Ltd	AHCH04	Omnipless /Chelton Inc /Cobham	HGA-7001	DTFCM01	COM DEV International Ltd	Type F (82161B30)	B6TH02 (internal PA)	Thales Avionics Ltd	TopFlight	6
							Associated Systems			
							Aero Classic 5THP04 I4 Operation July 2009		Swift64 None	

	ANTENNA	DLNA	AVIONICS/HPA
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TYPE APPROVED SBB SYSTEMS	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6TT01 Class 6, Single-Channel 5 th May 2009 Thrane & Thrane A/S	AHES02	EMS Technologies Canada Ltd	AMT-50	DTSTT01	Thrane & Thrane AS	Type 'S'	B6TT01	Thrane & Thrane AS	Aviator 350/350D	6
							Associated Systems			
							Aero Classic None		Swift64 None	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6TT02 Class 6, Single-Channel 23 rd June 2009 Thrane & Thrane A/S	AHCH01	Omnipless /Chelton Inc /Cobham	HGA-6000 HGA-6500	DTSTT01	Thrane & Thrane AS	Type 'S'	B6TT01	Thrane & Thrane AS	Aviator 350/350D	6
							Associated Systems			
							Aero Classic None		Swift64 None	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class

S6TT03 Class 6, Multi-Channel 22 nd Jan 2010 Thrane & Thrane A/S	AHES02	EMS Technologies Canada Ltd	AMT-50	DTFCD01	COM DEV International Ltd	Type F	B6TT01	Thrane & Thrane AS	Aviator 700/700D	6
							Associated Systems			
							Aero Classic 5TTP12		Swift64 76TT12	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6TT04 Class 6, Multi-Channel 22 nd Jan 2010 Thrane & Thrane A/S	AHCH02	Omnipless /Chelton Inc /Cobham	HGA-7000	DTFCD01	COM DEV International Ltd	Type F	B6TT01	Thrane & Thrane AS	Aviator 700/700D	6
							Associated Systems			
							Aero Classic 5TTP14		Swift64 76TT12	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S7TT01 Class 7,	AICH01	Omnipless	TT-5006A	DTSTT01	Thrane & Thrane AS	Type 'S'	B7TT01	Thrane & Thrane AS	Aviator 300/300D	7

Single-Channel 27 th Nov 2008 Thrane & Thrane A/S		/Chelton Inc /Cobham					Associated Systems		
				TT-5016A Integrated HPA, LNA & Diplexer.			Aero Classic None	Swift64 None	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S15TT01 Class 7, Single-Channel 18 th Oct 2010 Thrane & Thrane A/S		Sensor System	TT-3002	DTSTT01	Thrane & Thrane AS	Type 'S'	B15TT01	Thrane & Thrane AS	Aviator 200/200D	7
				TT-5016A Integrated HPA, LNA & Diplexer.			Associated Systems			
							Aero Classic None	Swift64 None		

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6TT05 Class 6, Single-Channel	AHES03	EMS Technologies Canada Ltd	AMT-700	DTSTT01	Thrane & Thrane AS	Type 'S'	B6TT01	Thrane & Thrane AS	Aviator 350/350D	6
							Associated Systems			

15 th October 2011				TT-5016A Integrated HPA, LNA & Diplexer.				Aero Classic None	Swift64 None
Thrane & Thrane A/S									

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6TT06 Class 6, Single-Channel	AHCH04	Omnipless/ Chelton Inc/Cobham	HGA-7001	DTSTT01	Thrane & Thrane AS	Type 'S'	B6TT01	Thrane & Thrane AS	Aviator 350/350D	6
12 th November 2011				TT-5016A Integrated HPA, LNA & Diplexer.			Associated Systems			
Thrane & Thrane A/S							Aero Classic None		Swift64 None	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6TT07 Class 6, Multi-Channel	AHES03	EMS Technologies Canada Ltd	AMT-700	DTFCD01	COM DEV International Ltd	Type F	B6TT02	Thrane & Thrane AS	Aviator 700/700D	6
							Associated Systems			

27 th March 2012							Aero Classic 5TTP20	Swift64 76TT30
Thrane & Thrane A/S								

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S7TT02 Class 7, Single-Channel 28 th March 2012 Thrane & Thrane A/S	AICH02	Omniplless /Chelton Inc /Cobham	IGA-5001	DTSTT01	Thrane & Thrane AS	Type 'S'	B7TT01	Thrane & Thrane AS	Aviator 300/300D	7
							Associated Systems			
							Aero Classic None		Swift64 None	

Type Approved SBB Systems	Antenna			DLNA			Avionics/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6TT08 Class 6, Single-Channel 28 th March 2012 Thrane & Thrane A/S	AHCM02	CMC Electronics Inc	CMA-2102	DTSTT01	Thrane & Thrane AS	Type 'S'	B6TT01	Thrane & Thrane AS	Aviator 350/350D	6
							Associated Systems			
							Aero Classic None		Swift64 None	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA						
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class			
S6TT09 Class 6, Single-Channel 28 th March 2012 Thrane & Thrane A/S	AHCH02	Omnipless /Chelton Inc /Cobham	HGA-7000	DTSTT01 TT-5016A Integrated HPA, LNA & Diplexer.	Thrane & Thrane AS	Type 'S'	B6TT01	Thrane & Thrane AS	Aviator 350/350D	6			
							Associated Systems						
							Aero Classic None				Swift64 None		

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA						
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class			
S6TT10 Class 6, Multi-Channel 28 th March 2012 Thrane & Thrane A/S	AHCH01	Omnipless /Chelton Inc /Cobham	HGA-6000	DTFCD01	COM DEV International Ltd	Type F	B6TT02	Thrane & Thrane AS	Aviator 700/700D	6			
							Associated Systems						
							Aero Classic 5TTP21				Swift64 76TT31		

	ANTENNA	DLNA	AVIONICS/HPA
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TYPE APPROVED SBB SYSTEMS	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6TT11 Class 6, Single-Channel 7th September 2012 Thrane & Thrane A/S	AHES01	EMS Technologies Canada Ltd	AMT-3800	DTSTT01	Thrane & Thrane AS	Type 'S'	B6TT01	Thrane & Thrane AS	Aviator 350/350D	6
							Associated Systems			
							Aero Classic None		Swift64 None	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6TT12 Class 6, Multi-Channel 21 st Nov 2012 Thrane & Thrane A/S	AHCH04	Omnipless /Chelton Inc /Cobham	HGA-7001	DTFCD01	COM DEV International Ltd	Type F	B6TT02	Omnipless/ Chelton Inc/ Cobham/Thran e	Aviator 700/700D	6
							Associated Systems			
							Aero Classic 5TTP22		Swift64 76TT32	

	ANTENNA	DLNA	AVIONICS/HPA
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TYPE APPROVED SBB SYSTEMS	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S15TT02 Class 15, Single-Channel 23 rd Dec 2013 Thrane & Thrane A/S	ALCH01	Omnipless /Chelton Inc /Cobham	LGA-3000	DTSTT01	Thrane & Thrane AS	Type 'S'	B15TT01	Thrane & Thrane AS	Aviator 200/200D	15
							Associated Systems			
							Aero Classic None		Swift64 None	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
S6TT13 Class 6, Multi-Channel 24th Dec 2013 Thrane & Thrane A/S	AHBA01	Ball Aerospace	Ball Airlink HGAS	DTFCD01	COM DEV International Ltd	Type F	B6TT02	Thrane & Thrane AS	Aviator 700/700D	6
							Associated Systems			
							Aero Classic 5TTP23		Swift64 76TT32	

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class

<p>S6TT14 Class 6 Multi-Channel</p> <p>(Single PS Audio & ACARS only)</p> <p>16th September 2022 Thrane & Thrane A/S</p> <table border="1"> <tr> <td>TAP 001</td> <td>HDR</td> <td>16/09/22</td> </tr> <tr> <td>TAP 002</td> <td>SB-S 2.0</td> <td>16/09/22</td> </tr> </table>	TAP 001	HDR	16/09/22	TAP 002	SB-S 2.0	16/09/22	AHCH04	HGA-7001	HGA-7001	DTFCD01	COM DEV International Ltd	Type F	B6TT03	Thrane & Thrane AS	Aviator 700S	6
	TAP 001	HDR	16/09/22													
	TAP 002	SB-S 2.0	16/09/22													
Associated Systems																
Aero Classic N/A		Swift64 N/A														

TYPE APPROVED SBB SYSTEMS	ANTENNA			DLNA			AVIONICS/HPA			
	Assessment Number	Manufacturer	Model Name	Assessment Number	Manufacturer	Type	Assessment Number	Manufacturer	Model Name	Class
<p>S4TT01 Class 4, Single-Channel</p>	ALCH03 AAP001	Cobham	LGA-5005 (HELGA)	N.A	N.A	N.A	B4TT01	Thrane & Thrane AS	Aviator 200S	4
							Associated Systems			

<p>8th April 2020 Thrane & Thrane A/S TAP 002: Class 4 SB-S 2.0 (8th April 2020: <u>Obsolete</u>)</p> <p>TAP 003: Class 4 SB-S 2.0 (18/01/2021 Revised: 08/02/2022)</p>							<p>Aero Classic None</p>	<p>Swift64 None</p>
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Note 1: SwiftBroadband Systems, require integration and testing as a system. There is no guarantee that by combining individual SwiftBroadband Assessed modules, that a permitted compliant system permutation will be achieved.

SWIFTBROADBAND: ANTENNA ASSESSMENT DETAILS

ASSESSMENT NUMBER:	MODEL NAME (MOUNTING):	MANUFACTURER	CLASS:	SINGLE/MULTI	PART NUMBER:	RESTRICTIONS/COMMENTS:
AHBA01	Airlink HGAS (2*Side Mount)	Ball Aerospace & Technologies Corp	6	Multi	HGA: 513738-506 to 520 (inc) BSU: 513739-509-xx to 514-xx Cable Assy: 510733-500 to 510 or 513881-500 to 509	15 th Order IM Compliant. ARINC 741, Phased Array
AHCH01	HGA-6000 HGA-6500 (Tail Mount)	Omnipless/Chelton Inc/Cobham	6	Multi	----- HGA-6000: 677-A0161 - HGA-6500: 677-A0189 -	7 th Order IM Compliant ARINC 741, Mechanically Steered ARINC 741/781, Mechan' Steered
AHCH02	HGA-7000 (Top Mount)	Omnipless/Chelton Inc/Cobham	6	Multi	Omnipless/Cobham: 677-A0106 Chelton Inc/Cobham: 804-10-0001	7 th Order IM Compliant ARINC 741, Phased Array
AHCH03	HGA-8000 (Top Mount)	Omnipless/Chelton Inc/Cobham	6	Multi	Omnipless/Cobham: 677-A0163 Chelton Inc/Cobham: 805-10-0001	11 th Order IM Compliant ARINC 741, Phased Array
AHCH04	HGA-7001 (Top Mount)	Omnipless/Chelton Inc/Cobham	6	Multi	Omnipless/Cobham: 677-A0173- 004 or 4141-89-99 Chelton Inc/Cobham: 804-10-0015 Rockwell: 866-5015-101 Rockwell: 866-5015-010R	7 th Order IM Compliant ARINC 781, Phased Array
AICH01	IGA-5006 IGA-5006A (Top/Tail)	Omnipless/Chelton Inc/Cobham Thrane & Thrane	7	Single	Omn/Che/Cob (5006): 677-A0002 Universal (5006): 10101-00 Thrane (5006A): 405006A-PMA	Single SBB or Classic only. Mechanically Steered
AICH02	IGA-5001 (Top Mount)	Omnipless/Chelton Inc/Cobham	7	Multi	Omn/Che/Cob (5001): 677-A0181	9 th Order IM Compliant Phased Array
ALCH01	LGA-3000 (Blade)	Omnipless/Chelton Inc/Cobham	15	Single	677-A0205	Single SBB only
AHCM01	CMA-2102SB (Top Mount)	CMC Electronics Inc	6	Multi	CMC: 100-602198-003	11 th Order IM Compliant ARINC 741, Phased Array

AHCM02	CMA-2102 & 2102LW	CMC Electronics Inc	6	Single	CMC: 100-602198-001 LW Version: 100-602198-002	Single SBB or Classic only. ARINC 741, Phased Array
AICM01	SatLite (Top Mount)	CMC Electronics	7	Single	CMC: 100-602546-VAR	Single SBB or Classic only. ARINC 741/781, Phased Array
AICM02	CMA-2200SB (Top Mount)	CMC Electronics	7	Single	CMC: 100-602620-000	Single SBB or Classic only. ARINC 781, Phased Array
AICM03	CMA-2200SB (Top Mount)	CMC Electronics	7	Multi	CMC: 100-602620-001	9th Order IM Compliant ARINC 781, Phased Array
AHES01	AMT-3800 (Top Mount)	EMS Technologies Canada Ltd	6	Multi	EMS: 1242-A-0010-xx	9th Order IM Compliant ARINC 781, Phased Array
AHES02	AMT-50 (Tail Mount)	EMS Technologies Canada Ltd	6	Multi	EMS: 0476-A-00377	9th Order IM Compliant. ARINC 741, Mechanically Steered
AHES03	AMT-700 (Tail Mount)	EMS Technologies Canada Ltd	6	Multi	EMS: 1428-A-0010-02 EMS: 1428-A-1010-02	9th Order IM Compliant. ARINC 781, Mechanically Steered
AIES01	AMT-3500 (Top Mount)	EMS Technologies Canada Ltd	7	Multi	EMS: 1242-A-2010-xx Rockwell: 1242-A-2110-xx EMS: 1242-A-2210-xx Thales: 1242-A-2310-xx	9th Order IM Compliant ARINC 781, Phased Array
AIES02	AMT-1800 (Top Mount)	EMS Technologies Canada Ltd	7	Multi (Max 2 channels)	EMS P/N: 1242-A-7010-xxx.	11th Order IM Compliant
ALAA01	AT1675-180 (Top Mount)	AeroAntenna Technology Inc	15	Single	AeroAntenna: AT1675-180 Honeywell/EMS: SCD-90402050	Single SBB only, Passive
ALAA02	AT1595-13	AeroAntenna Technology Inc	15	Single	AeroAntenna: AT1595-13 Honeywell/EMS: SCD-90402358	Single SBB only, omni-active

Note 1: The minimum SBB IM compliance is the 19th Order for ‘older’ antennas e.g. 741 and 9th order SBB IM for ‘all newer’ antennas e.g. 781. Note 2: In the phrase “**Single** SBB or Classic only” the word ‘or’ is interpreted as ‘an exclusive option’, meaning that the systems are not permitted to be operated simultaneously.

SWIFTBROADBAND: TEST ANTENNA DETAILS

ASSESSMENT NUMBER:	MODEL NAME (MOUNTING):	MANUFACTURER	CLASS:	SINGLE/MULTI	PART NUMBER:	RESTRICTIONS/COMMENTS:
AHRL01	Helix	Racal	6	Test*	PN: 1616-000	Static Test Usage only. (12dBi)
AHSV01	9227-810	Seavey	6	Test*	Part No: 1152-A-0450 (EMS)	Static Test Usage only. (16dBi) A <i>Mandatory 4dB Attenuation is required to compensate for the excess in gain.</i>

* PIM requirement not proven.

* The nominal SBB Class 6 Transmit Power is 20dBW (using a 12dBi Antenna Gain) and a typical Receive C/No of 64dB/Hz.

Note: Care should be exercised in matching non-standard SBB configurations, as any SBB Avionics not operated with respect to the nominal/typical operating range (for both the transmit and receive capabilities) will result in unrealistic/unrepeatable data being obtained compared to the normal operation.

Note: See the last page of this document for details upon the Antenna Assessment process performed by DFL in Ottawa & the potential IM impact.

SWIFTBROADBAND: DLNA ASSESSMENT DETAILS

ASSESSMENT NUMBER	MODEL NAME	MANUFACTURER	TYPE	PART NUMBER/RESTRICTIONS/COMMENTS:	
DTACH01 28 th May 08	DAU-7060	Omnipless/Chelton Inc /Cobham Rockwell Collins Omnipless/Chelton Inc /Cobham	ARINC- 741 Type A*	<ul style="list-style-type: none"> • 677-A0179 • 804-10-0017 • 866-5013-010R • 866-5013-101 	Requires a 3 rd Order Intermod from the Avionics of -38.7dBc for Multi-Channel usage. * Assessed by Inmarsat as achieving the Frequency Band as a Modified Type A.

DTACH02 29 th May 09	DAU-7050	Omnipless/Chelton Inc /Cobham	ARINC- 741 Type A*	Requires a 3 rd Order Intermod from the Avionics of -38.7dBc for Multi-Channel usage.	* Assessed by Inmarsat as achieving the Frequency Band as a Modified Type A.
DTACH03	HLD-7260	Omnipless/Chelton Inc /Cobham	Type A*	<ul style="list-style-type: none"> 677-A0187 original 677-A0169 	Single Channel Operation only. (HPA/LNA/Diplexer Module)
DTAES01 28 th May 08		EMS Technologies Canada Ltd (ComDev Cambridge Manufactured only)	ARINC- 741 Type A*	<ul style="list-style-type: none"> 0476-A-00364 Requires a 3 rd Order Intermod from the Avionics of -38.7dBc for Multi-Channel.	* Assessed by Inmarsat as achieving the Frequency Band as a Modified Type A.
DTFCD01 7 th July 08 (DTFCM01)		COM DEV International Ltd (Part Number: 173628-101) Aka DAU-7070 * Previously known as DTFCM01	ARINC- 781 (Sup2) Type F	Ball: 2292643-500 CMC: 100-602200-004 EMS: 1242-A-0006, 1242-F-0006 Omnipless/Chelton Ic/Cobham: 677-A0193 or 804-10-0025 or 5044-89-99 Thales: 82161B30 Thrane & Thrane: 504013A	Requires a 3 rd Order Intermod from the Avionics of -29.6dBc for Multi-Channel.
DMACD01		COM DEV International Ltd	ARINC-761 Modified Type 'A'	<ul style="list-style-type: none"> 156309-101 CMC: 100-602200-002 EMS: 1242-A-0005 Omnipless: 651-A0018 Chelton: 804-10-0011	Requires a 3 rd Order Intermod from the Avionics of -38.7dBc for Multi-Channel.
DTSTT01 27 th Nov 08	TT-5016A	Thrane & Thrane A/S	Inmarsat SBB-SDM compliant.	<ul style="list-style-type: none"> 405016A 405016A-THD 	Single Channel Operation only. (HPA/LNA/Diplexer Module)
DTSES01	IPLD	EMS Technologies Canada Ltd •	Inmarsat SBB-SDM compliant.	<ul style="list-style-type: none"> EMS: 1541-A-2100 	Single Channel Operation only. (HPA/LNA/Diplexer Module)

SwiftBroadband: Avionics Assessment Details

Class 6: PS=Background & Streaming Class Services, CS=Voice & ISDN (UDI, 3.1kHz etc) Services.

Class 7: PS=Background & Streaming Class Services, CS=Voice. Note: ISDN is supported by the UT, but not commercially supported by Inmarsat.

ASSESSMENT NUMBER:	MODEL NAME:	MANUFACTURER	CLASS	SINGLE/MULTI	PART NUMBER:	RESTRICTIONS/COMMENTS:
B6CH01 27 th May 09	SDU-7320 or SDU-7330 (7320 = 2MCU) (7330 = 3MCU)	Omnipless /Chelton Inc /Cobham	6	Multi PS & CS	SDU: 677-A0188-002 SDU: 677-A0183-002 (001 for single channel) HPA-7400: 677-A0169 HPA-7450: 677-A0198	Config: SBB Config Module: 780-A0619 HPA-7400 (-29.5dBC) HPA-7450 (-38.7dBC)
B6CH02 26 th Nov 10	SDU-7315	Omnipless /Chelton Inc /Cobham	6	Single PS & CS	SDU: 677-A0201-001 HPA-7400: 677-A0169 Config Mod: 654-A0395	Config: SBB
B6CH03 23 rd Feb 2012	SDU-7330- 004 (4 channel SBB)	Omnipless /Chelton Inc /Cobham	6	Multi PS & CS	SDU: 677-A0188-004 HPA-7450: 677-A0198 SCM: 780-A0619	Config: SBB only (2x streaming channels max)
B7CH01 26 th Aug 09	SDU-7320 or SDU-7330 (7320 = 2MCU) (7330 = 3MCU)	Omnipless /Chelton Inc /Cobham	7	Multi PS & CS	SDU: 677-A0188-001 SDU: 677-A0183-001 (001 for single channel) HPA-7400: 677-A0169 HPA-7450: 677-A0198	Config: SBB Config Module: 780-A0619 HPA-7400 (-29.5dBC) HPA-7450 (-38.7dBC)
B7CH02 26 th Nov 10	SDU-7315	Omnipless /Chelton Inc /Cobham	7	Single PS & CS	SDU: 677-A0201-001 HPA-7400: 677-A0169 Config Mod: 654-A0395	Config: SBB

ASSESSMENT NUMBER:	MODEL NAME:	MANUFACTURER	CLASS	SINGLE/MULTI	PART NUMBER:	RESTRICTIONS/COMMENTS:
B7CH03 29 th May 2012	SDU-7330-004 (4 channel SBB)	Omnipless /Chelton Inc /Cobham	7	Multi PS & CS	SDU: 677-A0188-004 HPA-7450: 677-A0198 SCM: 780-A0619	Config: SBB only (2x streaming channels max)
B6ES02 28 th May 08	HSD-400i	EMS Technologies Canada Ltd	6	Multi PS & CS	1252-A-3520 1252-A-3500 (single)	Three Waivers Granted. Config: SBB For class 6H, 6-2, six Waiver Granted (B6ES02_AAP002) on 13 th June 2018.
B6ES03 27 th Apr 08	HSD-400	EMS Technologies Canada Ltd	6	Multi PS & CS	1252-A-3105 1252-A-3205 (single)	Three Waivers Granted. Config: SBB
B6ES04 28 th May 08 29 th Oct 10 TAP002 (HDR: 13 th Dec 2016)	HSD-440	EMS Technologies Canada Ltd	6	Multi PS & CS	Mk1: 1252-A-3420-xx Mk2: 1252-A-3820-xx (Mk2: 2°C Channel)	Two Waivers Granted. Config: SBB + Classic or Swift64 + Classic TAP002: HDR 4 waivers
B6ES05 29 th February 2012	HSD-400i HSD-Xi (x2) (Internal PA) (4x SBB)	EMS Technologies Canada Ltd	6	Multi PS & CS	HSD400i: 1252-A-3520-02 HSD-Xi: 1252-A-4100-01 SCM: 1110-A-0688	Three Waivers Granted. Config: SBB 4x SBB
B6ES06 12 th Dec 08	HSD- Xss1 (HDU-200)	EMS Technologies Canada Ltd	6	Single PS & CS	SDU: 1541-A-3000-01 IPLD: 1541-A-2100	Single Channel only.

ASSESSMENT NUMBER:	MODEL NAME:	MANUFACTURER	CLASS	SINGLE/MULTI	PART NUMBER:	RESTRICTIONS/COMMENTS:
B6ES07 1 st Dec 16	HSD-440 (B6ES04) HSD-Xi (x2) (Internal PA) (4x SBB)	EMS Technologies Canada Ltd	6	Multi PS & CS	HSD440: 1252-A-3420- 02 - 03 - 04 - 07 HSD-Xi: 1252-A-4100-01 SCM: 1110-A-0688	Four Waivers Granted. Config: SBB 4x SBB
B7ES01 12 th Dec 08	HSD- 400i	EMS Technologies Canada Ltd	7	Single PS & CS	1252-A-3520-02 1252-A-3520-03	Single Channel only.
B7ES02	HSD- Xss1 (HDU-200)	EMS Technologies Canada Ltd	7	Single PS & CS	SDU: 1541-A-3000-01 IPLD: 1541-A-2100	Single Channel only.
B15ES01 12 th Dec 08	HSD- Xss1 (HDU-200)	EMS Technologies Canada Ltd	15	Single PS & CS	SDU: 1541-A-3000-01 AeroWave100 P/N: 90402045 IPLD: 1541-A-2100	Single Channel only.
B6HW01 5 th Aug 08 29 th Oct 10 TAP002 (HDR: 13 th Dec 2016)	HD-710 "Standalone"	Honeywell Aerospace	6	Multi PS & CS	Ph3:1252-A-3700-xx Ph4:1252-A-3800-xx (Ph4: 2*C Channel)	Two Waivers Granted. Config: SBB+Classic or Swift64+Classic TAP002: 4 waivers

ASSESSMENT NUMBER:	MODEL NAME:	MANUFACTURER	CLASS	SINGLE/MULTI	PART NUMBER:	RESTRICTIONS/COMMENTS:
B6HW02 5 th Aug 08	HD-710 "Combined"	Honeywell Aerospace	6	Multi PS & CS	1252-A-3600	Two Waivers Granted. Config: SBB + Classic or Swift64 + Classic Over Power Protection Pending
B6HW03 6 th Mar 09 10 th Sep 10	MCS-7200	Honeywell Aerospace/ Thales Avionics	6	Multi PS & CS	SDU: 7516118- -27135, 27145, 27150 -24151, 27151, -24145, 27145, 47145, 47151, -77010, -77135, - 77145 HSU: 7520061-340 15, 16, 17 SVN: 9 1252-A-1202 (EMS) HP-720: 7520000-20140	Config: SBB + Classic or Swift64 + Classic HDM:7520033-901 HPA: 7520000-20140
B6HW04	Aspire 400	Honeywell Aerospace	6	Multi PS & CS	<u>Boeing Specific Part#:</u> SDU: 90402651-000 HPA: 90404514-000 SCM: 90402652-000 SDU: 90402651-000 <u>Core Product Par#:</u> SDU:90402651-001 HPA:90404514-001 SCM:90402652-001	Config: SBB (PIESD)+SB-S 2.0 AAP002: HDR AAP003: SB-S 2.0 (CS+PS Voice, AISD,ACARS)

ASSESSMENT NUMBER:	MODEL NAME:	MANUFACTURER	CLASS	SINGLE/MULTI	PART NUMBER:	RESTRICTIONS/COMMENTS:
B7HW01	Aspire 400	Honeywell Aerospace	7	Multi PS & CS	<u>Boeing Specific Par#:</u> SDU: 90402651-000 HPA: 90404514-000 SCM: 90402652-000 <u>Core Product Part#:</u> SDU: 90402651-001 HPA: 90404514-001 SCM: 90402652-001	Config: SBB (PIESD)+SB-S 2.0 AAP002: HDR AAP003: SB-S 2.0 (CS+PS Voice, AISD,ACARS)
B6RK01 20 th May 09	SRT-2100B (HST-2110B) (HCM-2100B)	Rockwell Collins	6	Multi PS & Voice	SRT: 822-1785-001 (For Non B787), 822-1785-401, 822-1785-003 (For B787) HS:822-2232-020/010 (For Non-Airbus) HS: 822-2032-040 (For Airbus) HC:822-2248-001	Three Waivers Granted Config: SBB + Classic or Swift64 + Classic
B6RK02 2 nd Dec 09	SAT-906B (SDU-906) (HST-2110B)	Rockwell Collins	6	Multi PS & Voice	SDU 906: 822-0314-102 RFU 900: 622-8849-100 HST-2110B: 822-2232-020 HPA-901B: 822-2577-001 HCM-2100B: 822-2248-001	Three Waivers Granted Config: SBB + Classic or Swift64 + Classic

ASSESSMENT NUMBER:	MODEL NAME:	MANUFACTURER	CLASS	SINGLE/MULTI	PART NUMBER:	RESTRICTIONS/COMMENTS:
B6RK03 16 th June 11	SAT-22000 (SDU-2200) (FMPA-2200) (SCM-2200)	Rockwell Collins	6	Multi PS & Voice	SDU: 822-2556-101 FMPA: 822-2557-101 SCM: 822-2558-101 SDU: 822-2556-102	4 Waivers Granted Config: SBB + Classic
B6RK04 9 th Feb 2012	(SDU-2200) (SCM-2200) (Internal PA)	Rockwell Collins	6	Multi PS & Voice	SDU: 822-2556-102 SDU: 822-2558-101	4 Waivers granted Config: SBB + Classic
B6RK05 (TBD)	SAT-2200A HPA-2200	Rockwell Collins	6	Multi PS & Voice	SDU: 822-2909-050 HPA: 822-2910-050 SCM: 822-2558-050	TBD
B6RK06 (TBD)	SAT-2200-2 SDU-2200-2 Internal PA SCM-2200-2	Rockwell Collins	6	Multi PS & Voice	SDU: 822-3009-100 HPA: Internal 32W PA SCM: 822-2558-001, 822-2558-201	SBB + Classic or Swift64 + Classic
B6RK07	SAT-2200B Internal 40W PA	Rockwell Collins	6	Multi PS & Voice	SDU: 822-3057-101 SCM: 822-3091-101	Config: 2xSBB + Classic Data/Voice
B6TH01 29 th May 09	TopFlight	Thales Avionics Ltd	6	Multi PS & Voice	SDU: 82155D32 or D33 or D34 SCM: 82158A30 or A31 FMPA: 82166A30-000	Config: SBB + SBB or SBB + Classic
B6TH02 23 rd Feb 2012	TopFlight	Thales Avionics Ltd	6	Multi PS & Voice	SDU: 82155D32 or D33 or D34 SCM: 82158A30 or A31 (internal PA)	Config: SBB + SBB or SBB + Classic

ASSESSMENT NUMBER:	MODEL NAME:	MANUFACTURER	CLASS	SINGLE/MULTI	PART NUMBER:	RESTRICTIONS/COMMENTS:
B7TH01 30 th Jan 09	TopFlight	Thales Avionics Ltd	7	Single PS only	SDU: 82155A31 SCM: 82158A30	Single Channel only. Config: SBB
B7TH02 7 th June 2012	TopFlight	Thales Avionics Ltd	7	Multi PS & Voice	SDU: 82155D32 or D33 SCM: 82158A30 or A31 (internal PA)	Config: SBB + SBB or SBB + Classic
B6TT01 5 th May 09	Aviator 350/350D	Thrane & Thrane	6	Multi PS & CS	SBU: 405040A/405040A-THD CM: 405040A-001 HLD: 405016A/405016A-THD	Config: SBB + Classic or Swift64 + Classic HLD Module = HPA, LNA, Diplexer TAP002: SwiftBroadband Oceanic Safety ACARS Data Service TAP003: SwiftBroadband Oceanic Safety CS ICAO Voice
B6TT02 27 th March 2012	Aviator 700/700D	Thrane & Thrane	6	Multi PS & CS	SBU: 405040A/405040A-THD SDU: 405035A/405035A-THD HPA: 405014A/405014A-THD CM: 405035A-001 (SDU) 405040A-001 (SBU)	Config: SBB + Classic or Swift64 + Classic

ASSESSMENT NUMBER:	MODEL NAME:	MANUFACTURER	CLASS	SINGLE/MULTI	PART NUMBER:	RESTRICTIONS/COMMENTS:
B6TT03 16/09/2022	Aviator 700S	Thrane & Thrane	6	Multi PS	SDU: SDU-5045:405045- 01000 (822-3418-xx1) MCHPA: HPA-5015: 405015-01000 (822-3417-xx1)	SBB+SB-S 2.0 (ACARS) Single PS Voice TAP002: HDR TAP003: ACARS
					SCM: SCM-5055: 405055-01000 (822-3419-xx1)	
B7TT01 27 th Nov 08	Aviator 300/300D	Thrane & Thrane	7	Single PS & CS	SBU: 405040A/405040A-THD CM: 405040A-001 HLD: 405016A/405016A-THD	Single Channel only. Config: SBB HLD Module = HPA, LNA, Diplexer TAP002: SwiftBroadband Oceanic Safety ACARS Data Service TAP003: SwiftBroadband Oceanic Safety CS ICAO Voice
B15TT01 18 th Oct 10	Aviator 200/200D	Thrane & Thrane	15	Single PS & CS	SBU: 405040A/405040A-THD CM: 405040A-001 HLD: 405016A/405016A-THD	Single Channel only. Config: SBB HLD Module = HPA, LNA, Diplexer

ASSESSMENT NUMBER:	MODEL NAME:	MANUFACTURER	CLASS	SINGLE/MULTI	PART NUMBER:	RESTRICTIONS/COMMENTS:						
B4TT01 8 th April 2020 Revised:28 th Jan 2022	Aviator 200s	Thrane & Thrane	4	Single PS, CS and SB- S 2.0	SDU-5045 <table border="1"> <thead> <tr> <th>HW Part#</th> <th>SW Part#</th> </tr> </thead> <tbody> <tr> <td>405045-00001</td> <td>SVN:01 CSC5045 03000001</td> </tr> <tr> <td>405045-02000</td> <td>SVN:02 CSC53-4523-0000</td> </tr> </tbody> </table>	HW Part#	SW Part#	405045-00001	SVN:01 CSC5045 03000001	405045-02000	SVN:02 CSC53-4523-0000	Single Channel SB-S 2.0. Active ELGA
					HW Part#	SW Part#						
405045-00001	SVN:01 CSC5045 03000001											
405045-02000	SVN:02 CSC53-4523-0000											
SCM-5055 HW Part#: 405055-00000, 405055-02000												
					LGA-5005 <table border="1"> <thead> <tr> <th>HW Part#</th> <th>SW Part#</th> </tr> </thead> <tbody> <tr> <td>405045-00000</td> <td>CSC5645 05000001</td> </tr> <tr> <td>405005-02000</td> <td>CSC5545 250000</td> </tr> </tbody> </table>	HW Part#	SW Part#	405045-00000	CSC5645 05000001	405005-02000	CSC5545 250000	
HW Part#	SW Part#											
405045-00000	CSC5645 05000001											
405005-02000	CSC5545 250000											

Antenna Assessment Information:

What does the Aeronautical Antenna Assessment Coverage mean?

The AES shall simultaneously satisfy the antenna gain, axial ratio and discrimination at different solid angles, over a minimum fraction (HGA: 75% and IGA: 85%) of the Upper Hemisphere, (see coverage volume diagram below), excluding the lowest 5° above the horizon.

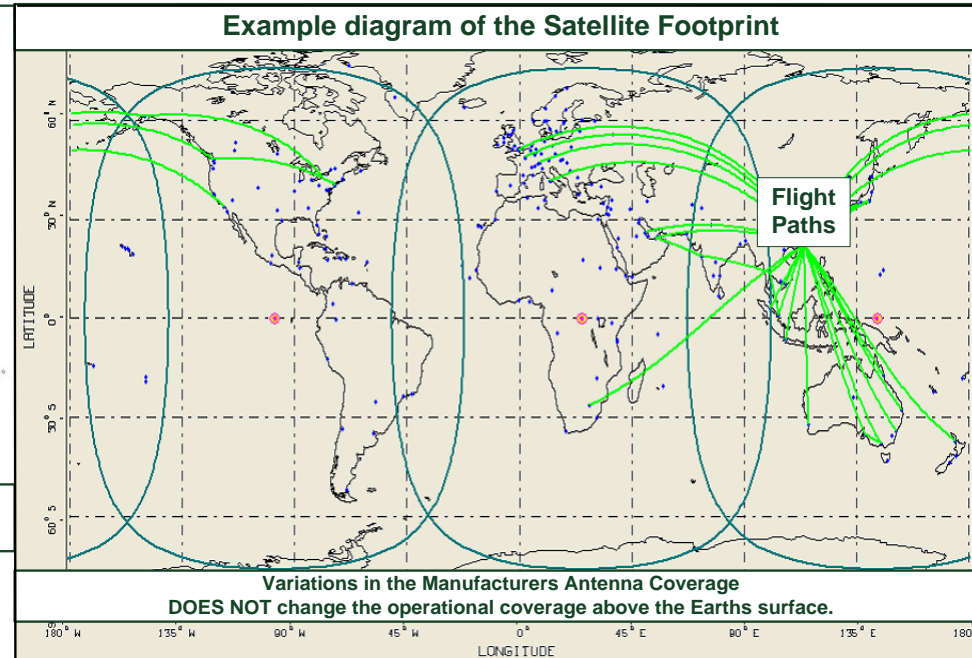
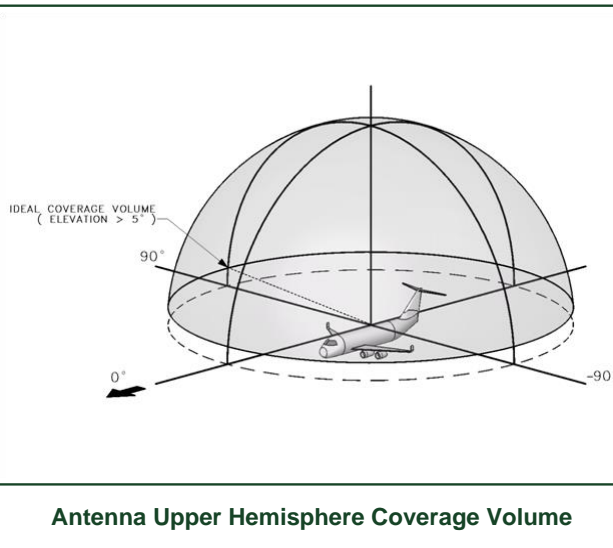
The tests are carried out on a 2 x 2 equi-spaced grid – that is at elevation & azimuth spacing of 2°, which gives in excess of 4000 test points. The tests are performed as a minimum using the lowest, highest and central frequency in each of the transmit and receive bands (e.g. 1626.5, 1643.5, 1660.5 MHz & 1525, 1542, 1559 MHz).

The issuing of an Antenna Assessment Certificate by Inmarsat endorses the Antenna as having satisfied/ surpassed the conditions identified above.

Note: The variations in antenna coverage volumes does not effect the geographical operation above the Earths surface. The higher the coverage volume achieved, the greater the operational coverage where the optimum QoS is maintained.

What does the Inter-modulation (IM) Order Mean? e.g. 7th, 11th, 15th, Order.

The lower the order e.g. 7th, the less susceptible the antenna is, to suffering a reduced Quality of Service when transmitting multiple carriers.



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