

Aerospace Electronic Systems

Honeywell

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October 12, 2001

5150-0110-1880

Federal Communications Commission

Equipment Approval Services

P.O. Box 358315

Pittsburgh, PA 15251-5313

Subject: Type Certification for SD-700 Satellite Data Unit

Dear Sir or Madam:

In accordance with FCC Rules and Regulations Title 47, Part 2, Subpart J, Section 911, Honeywell Intl., Commercial Electronics Systems, hereby requests FCC Type Certification for the SD-700 Satellite Data Unit. The SD-700 will be identified with FCC ID: GB8SD-700. This application accompanies FCC Form 731 as required by 47 CFR 1.1033(a).

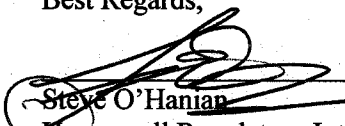
The SD-700 Satellite data unit (SDU) system was developed for use with the MCS-7000 Multi-channel Satellite Communication (SATCOM) System. The SDU supplies the interface to all aircraft avionics, and implements all functionality associated with modulation/demodulation, error correction, channel rate/frequency selection, and RF translation for up to seven communication channels.

A letter of "Intent to File for FCC Certification" for the SD-700 has been sent to the applicable Federal Aviation Administration Office and included with this application as required by 47 CFR 87.147(d).

Enclosed with this application are the Technical Reports and other associated items that are required by 47 CFR 2.1033(c). This includes information concerning FCC ID, operating characteristics, schematic diagrams, associated descriptions, drawings, and photographs. The enclosed drawings indicate the location of the labels containing the FCC ID.

Your favorable consideration of this application will be appreciated.

Best Regards,


Steve O'Hanian

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ENCLOSURES

General

	Exhibit Type	Description	File Description	File Format
1	N/A	Application form 731, dated September 28, 2001	N/A	N/A
2	N/A	Fee Processing Form 159	FEE Processing Form 159	Adobe PDF
3	Cover Letter	Type Certification for SD-700 Satellite Data Unit, Letter number 5150-0110-1880	FCC Type Certification Letter	Adobe PDF
4	Cover Letter	Honeywell letter to FAA regarding Notification of Intent to File for FCC Type Certification, dated September 28, 2001, ref:	FAA Letter of Intent	Adobe PDF
5	Test Report	FCC Type Acceptance Report for the SD-700 Satellite Data Unit, Honeywell Part Number 7516118 – EB7516219, Rev. A, Pages 1 thru 54	FCC Type Acceptance Report	Adobe PDF
6	Test Report	FCC Type Acceptance Report for the SD-700 Satellite Data Unit, Honeywell Part Number 7516118 – EB7516219, Rev. A, Pages 55 thru 112	FCC Type Acceptance Report	Adobe PDF
7	Test Report	FCC Type Acceptance Report Change Order EB7516219 Rev. – to A	FCC Type Acceptance Report	Adobe PDF
8	Operational Description	Multi-Channel SATCOM System Description and Installation Manual, A15-5111-001, Pages 1 thru 194	Description and Installation Manual	Adobe PDF
9	Operational Description	Multi-Channel SATCOM System Description and Installation Manual, A15-5111-001, Pages 195 thru 389	Description and Installation Manual	Adobe PDF
10	Schematics	RFM Prime Assembly Drawing – End Item Print 7516113-904, Rev. E, Pages 1 thru 4	RFM Prime Assembly Drawing	Adobe PDF
11	Schematics	Satcom MCS7000 Receiver Card Schematic 7516114-906, Rev. Original, Pages 1 thru 6	SATCOM MCS7000 Receiver Card Schematic	Adobe PDF

Enclosures (continued)

12	Schematics	Satcom MCS7000 Receiver Card Schematic 7516114-906, Rev. Original, Pages 7 thru 12	SATCOM MCS7000 Receiver Card Schematic	Adobe PDF
13	Schematics	Satcom MCS7000 Receiver Card Schematic 7516114-906, Rev. Original, Pages 13 thru 24	SATCOM MCS7000 Receiver Card Schematic	Adobe PDF
14	Schematics	Satcom MCS7000 Receiver Card Schematic 7516114-906, Rev. Original, Pages 25 thru 36	SATCOM MCS7000 Receiver Card Schematic	Adobe PDF
15	Schematics	Circuit Card Assembly – RFM Transmitter Schematic 7516116-905, Rev. Original, Pages 1 thru 12	Circuit Card Assembly RFM Transmitter Group A	Adobe PDF
16	Schematics	Circuit Card Assembly – RFM Transmitter Schematic 7516116-905, Rev. Original, Pages 13 thru 24	Circuit Card Assembly RFM Transmitter Group B	Adobe PDF
17	Schematics	Circuit Card Assembly – RFM Transmitter Schematic 7516116-905, Rev. Original, Pages 25 thru 38	Circuit Card Assembly RFM Transmitter Group C	Adobe PDF
18	ID Label/Location Information	Change Order 7021570 BG to BH	Change Order BG to BH	Adobe PDF
19	ID Label/Location Information	Change Order BE to BF 7021570	Change Order BE to BF	Adobe PDF
20	Schematics	Circuit Card Assembly SPSU-Power Schematic 7516410-903, Rev. G	Circuit Card Assembly SPSU-Power Schematic	Adobe PDF
21	Schematics	Circuit Card Assembly SPSU-Control Schematic 7516420-903, Rev. Original	Circuit Card Assembly SPSU-Control Schematic	Adobe PDF
22	Schematics	MCS Prime Main Processor Modem Module Schematic A1/81771/WDEB	MCS Prime Main Processor Modem Module Schematic	Adobe PDF
23	Schematics	MCA SDU I/O Module Schematic A1/81771/WDFA	MCA SDU I/O Module Schematic	Adobe PDF
24	Schematics	SATCOM SDU Front Panel Display Circuit Schematic A1/81771/WDHA	SATCOM SDU Front Panel Display Circuit Schematic	Adobe PDF

25	Schematics	PRM Transcoder Modem Circuit Schematic (MD25) A1/81771/WDLC	PRM Transcoder Modem Circuit Schematic	Adobe PDF
26	Schematics	SDU Interface Module Schematic A1/81771/WDTA	SDU Interface Module Schematic	Adobe PDF
27	Schematics	SDU Motherboard Schematic A0/81771/WDVC	SDU Motherboard Schematic	Adobe PDF
28	Schematics	Voice Interface Module (VIM) (Miscellaneous Circuitry) Schematic A1/81771/WDYB	Voice Interface Module (VIM) Schematic	Adobe PDF
29	Schematics	Ocxo Wiring and Filter Schematic A3/81771/WDME	Ocxo Wiring and Filter Schematic	Adobe PDF
30	Photo	External Photo – Front Label 01_SD-700	External Photo Front Label	Adobe PDF
31	Photo	External Photo – Rear 02_SD-700	External Photo Rear Label	Adobe PDF
32	Photo	Internal Photo - 03_SD-700 Front-Right PSU	Internal Photo Front Right PSU	Adobe PDF
33	Photo	Internal Photo – 04_SD-700 Front-Left RFM	Internal Photo Front Left RFM	Adobe PDF
34	Photo	Internal Photo – 05_SD-700 Front Front Plate	Internal Photo Front Front Plate	Adobe PDF
35	Photo	Internal Photo – 06_SD-700 Front Plate Removed	Internal Photo Front Plate Removed	Adobe PDF
36	Photo	Internal Photo – 07_SD-700 Right Side IFM_OCXO_M	Internal Photo Right Side OCXO	Adobe PDF
37	Photo	Internal Photo – 08_SD-700 Left Side IFM_MthrBrd	Internal Photo Left Side IFM MthrBrd	Adobe PDF
38	Photo	Internal Photo – 09_SD-700 Right Side OCXO	Internal Photo Right Side IFM OCXO M	Adobe PDF
39	Photo	Internal Photo – 10_Front Plate Inside	Internal Photo Front Plate Inside	Adobe PDF
40	Photo	Internal Photo – 11_Triple Transcoder Modem Side 1	Internal Photo Transcoder Modem Side 1	Adobe PDF

41	Photo	Internal Photo – 12_Triple Transcoder Modem Side 2	Triple Transcoder Modem Side 2	Adobe PDF
42	Photo	Internal Photo – 13_Main Processor Module Side 1	Main Processor Module Side 1	Adobe PDF
43	Photo	Internal Photo – 14_Main Processor Module Side 2	Main Processor Module Side 2	Adobe PDF
44	Photo	Internal Photo – 15_Voice Interface Module 1	Voice Interface Module 1	Adobe PDF
45	Photo	Internal Photo – 16_Input_Output Module	Internal Photo Input Output Module	Adobe PDF
46	Photo	Internal Photo – 17_PSU Power Card	Internal Photo PSU Power Card	Adobe PDF
47	Photo	Internal Photo – 18_PSU Control Card	Internal Photo PSU Control Card	Adobe PDF
48	Photo	Internal Photo – 19_RFM Tx Card Side 1	External Photo RFM Tx Card Side 1	Adobe PDF
49	Photo	Internal Photo – 20_RFM Tx Card Side 2	External Photo Tx Card Side 2	Adobe PDF
50	Photo	Internal Photo – 21_RFM Rx Card Side 1	Internal Photo RFM Rx Card Side 1	Adobe PDF
51	Photo	Internal Photo – 22_RFM Rx Card Side 2	Internal Photo RFM Rx Card Side 2	Adobe PDF