

August 4, 2006

1 PARTS LIST – GUIDE TO SCHEMATICS & PHOTOS

1.1 Parts List Overview

The RF chain within the transmitter system can be broken down into several smaller sub-systems including: Sirius Exciter, Synthesizer, RF Pre-amplifier, Power Amplifier Module (PA), and Multiplex Card. The following tables list the active printed circuit boards within these sub-systems that ultimately define the frequency stability, RF power regulation, power limiter, and spectral purity of the Thales MediaFLO 700MHz band digital transmitter system. This table should be used along with the block diagrams and/or schematics enclosed to identify location and function of each.

Note that all parts lists are shown in an indented format, where lower level sub-assemblies are indented below their parent assembly.

1.2 Digital Exciter

45321627.11 EXITER,SIRIUS,FLO,UHF

REF / PART NUMBER / REVISION	DESCRIPTION	QTY.
A1 45323350 A	PRE-WIRED RACK	1.00
A1 45323251 M	ASSEMBLED RACK	1.00
A2 91793968 A	LASSEN SK II GPS (IF EQUIPPED)	1.00
A3 45324498 D	LED BOARD	1.00
A5 61391711 A	POWER SUPPLY, EQUIPED	1.00
PS1 91832443	POWER SUPPLY	1.00
A2 45335427.01 A	FPGA BOARD 6M GATES EQUIPPED	1.00
A1 45324527.01 A	FPGA 6M GATES MODULATOR BOARD	1.00
A3 45324535 B	SYNTHESIZER/FILTERING 10MHZ	1.00
Y 91819220 A	SYNTHSIZER, DDAS 1013 OPT08 OPT30	1.00
A4 45323352.01 A	MODUL, TS TV UHF	1.00
A1 45324480.01 A	TS / TV BOARD	1.00
A2 45324492.01 A	TX BOARD	1.00
A3 45324501 B	IF FILTER BOARD DVBT	1.00
A6 45324591 A	SWITCH/ALE BOARD	1.00
A5 45323321 A	FILTER PREAMPLI UHF/VHF 19DBM	1.00
1 45324529 B	SIRIUS PREAMLI/FILTER BOARD	1.00

1.3 Power Amplifier

61389730.01 POWER AMPLIFIER MODULE

REF	PART NUMBER/REV		DESCRIPTION	QTY.
A4	45324270	F	UHF 2 WAYS WILKINSON	4.00
A5	45324585	B	PALLET BLF861A	9.00
A7	45324414	G	POWER SUPPLY DISTRIBUTION BOARD	1.00
A9	45324403	L	CL.A PREAMPLIFIER BOARD	1.00
A11	45324417	K	SECURITY INTERFACE	1.00

1.4 Multiplex Board

45324500.01 MULTIPLEX BOARD

REF	PART NUMBER/REV		DESCRIPTION	QTY.
A1	45324499.01	A	MULTIPLEX BOARD	1.00
G1	99204874	-	CONVERTER DC/DC 9-18V/5V 1.5A, PDB08C05	1.00