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Moog Manned Data Link Validation
FCC Information Brief

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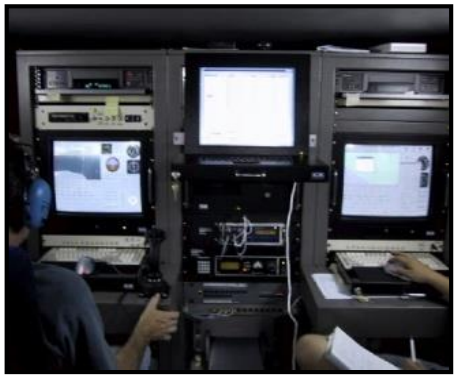


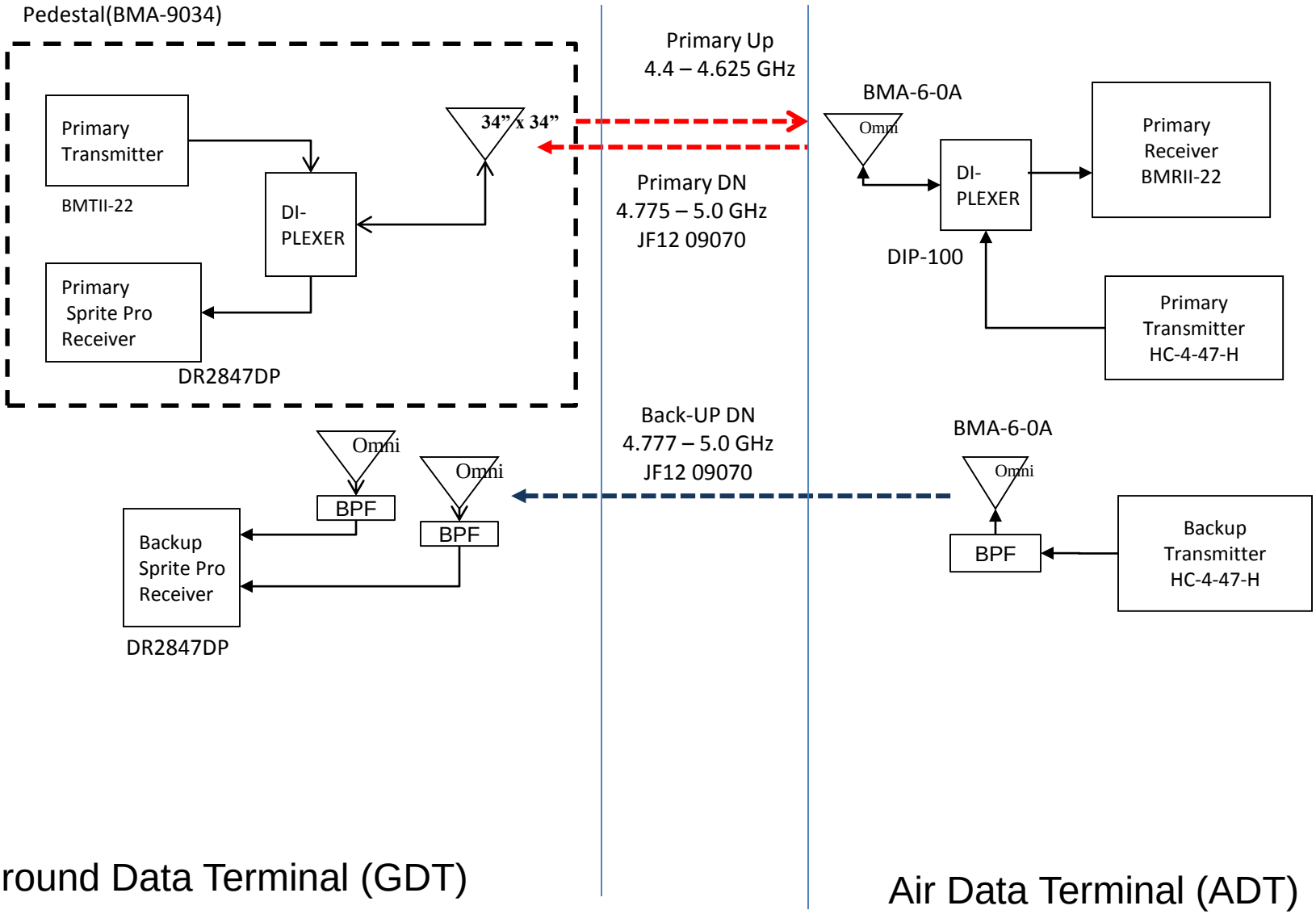
Transmitter Summary

Item #	Mfg	Model No	Description	Frequency (MHz)		Tuning Resolution / Accuracy	Power (W)	Antenna Gain (dBi)	Beamwidth (Deg)	ERP (dBm)	Mean / Peak	Modulating Signal	Bandwidth
				Lower	Upper								
Airborne Transmitters													
1	BMS (see Note 1)	Helicoder 4, HC4--47-H	Video and Data Transmitter Primary Down link	4,400	5,000	1 MHz +/- 2.5 PPM	10.0	5.5	Omni	45.5	Mean	COFDM	8MHz
2	BMS (see Note 1)	Helicoder 4, HC4--47-H	Video and Data Transmitter Back-up Down link (Same as Primary)	4,400	5,000	1 MHz +/- 2.5 PPM	10.0	5.5	Omni	45.5	Mean	COFDM	8MHz
Ground Transmitters													
1	BMS	BMTII	Command / data Transmitter Primary	4,400	5,000	1 MHz +/- 2.5 PPM	8.0	28.0	6.4 deg (AZ & EL)	65.0	Mean	FSK	140KHz (-3dB)

Notes:	1. BMS - Broadcast Microwave Services, Poway, CA 2. Frequencies can be changed remotely during a mission 3. The C-band emitters are tunable in 1 MHz increments within the upper and lower frequencies 4. ERP includes allowance for cable losses

Primary and B/U Downlink - Video and Data
4.775 GHz to 5.0 GHz
J/F12 09070

Primary Uplink – Data Only
4.4 GHz to 4.625 GHz


Pedestal(BMA-9034)
Primary Transmitter
BMTII-22
DI-PLEXER
34" x 34"
Primary Sprite Pro Receiver
DR2847DP
Primary Up
4.4 – 4.625 GHz
Primary DN
4.775 – 5.0 GHz
JF12 09070
BMA-6-0A
Omni
DI-PLEXER
Primary Receiver BMRII-22
DIP-100
Primary Transmitter HC-4-47-H
Back-UP DN
4.777 – 5.0 GHz
JF12 09070
Omni
Omni
BPF
BPF
Backup Sprite Pro Receiver
DR2847DP
BMA-6-0A
Omni
BPF
Backup Transmitter HC-4-47-H
Ground Data Terminal (GDT)
Air Data Terminal (ADT)

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