

ERMP Configuration Matrix

22 February 2008

	Block 0 P/N: UWA97000-5	Capital Upgrade P/N: UWA97000-1	Block 1 (SDD) P/N: UWA97000-10
Powerplant			
Engine	Thielert 1.7 Liter Heavy Fuel Engine with Two 170 Amp/4.7 KW Alternators (9.5 KW Total)		
Fuel	UWA16060-1 Fuel System with UWA43400 Fuel Tray ^{Note 1}		
Cooling	UWA16015-1 Cooling System		
Fuselage & Landing Gear			
Fuselage	UWA21000-1 Fuselage Assy	UWA21000-2 Fuselage Assy ^{Note 2}	
LDG Gear	UWA16130-1	UWA16030-1	
Wings & Tails			
Wings	Wing Assembly (UWA16010-1)	De-Ice Wing Assembly (UWA16110-1)	
	Dual Redundant Smart Servos: 4 Micromo Aileron Servos UWA51000-1 (2 per wing)		
	Double Slotted Flaps: 2 Micromo Flap Servos UWA51130-1 (1 per wing)		
Tails ^{Note 3}	Diagonal Tails UWA23160-1/-2	De-Ice Diagonal Tails UWA23260-1/-2	
	Vertical Tail/Rudder UWA23360-1	De-Ice Vertical Tail/Rudder UWA23400-2	
	3 Tail Servos UWA51165-1 (1 per tail)		
De-Ice System	--		De-Ice Wings & Tails plus: <ul style="list-style-type: none"> ▪ 1 De-Ice Controller ▪ 3 De-Ice Power Distributors
Avionics +			
Navigation (INS/GPS)	Triple Redundant System w/ DGPS Autoland consisting of: One Honeywell H764 EGI connected to a GPS Antenna, Active +13dB and two Athena GS-511 GPS/INS (w/SAASM) connected to two GPS Antennas, Active +36dB		
Alpha	UER71000-1 Alpha Probe	UHK71000-1 Alpha/Beta Probe ^{Note 4}	UER71000-1 Alpha Probe
Air Data	Triplex Air Data System (UWA16000-1)		
Altimeter	Three Laser Altimeters (UWA13650-1)		
Cameras	Dual EO/IR Camera Assy (UHK75010-1)		
IFF/ Mode S	AN/APX-118 IFF with 2 IFF Blades		
ELT	ELT (Emergency Locator Transmitter) with Whip Antenna		
Nav Lights	Red Light & Green Light Assemblies (UPA76507 & UPA76508)		
IR Strobes	Upper & Lower IR Strobes (UER76118-1 & UER76119-1)		
VHF/UHF Com Radio	AN/ARC-210, RT-1794 C VHF/UHF LOS and SATCOM Comm System with UHF/VHF Antenna	AN/ARC-231 VHF/UHF DLOS and DAMA (Demand Assigned Multiple Access) SATCOM 3 Comm System with UHF/VHF Antenna	
MCM	MCM (Mission Control Module) w/ Weapons Computer (UWA13400-2)	MCM w/ PCC (Payload Control Computer), Ethernet Switch & Flight Data Recorder (UWA13120-1)	
Audio	--		
TALS	--		
Lightning Sensor	--		Stormscope WD-500 with Antenna
Datalink			
C-Band LOS	C-Band LOS Datalink (Dual Transmitters & Receivers) C-Band, Upper Omni	Flight Test Only ^{Note 5} C-Band LOS Datalink (Dual Transmitters & Receivers) C-Band, Upper & Lower Omni Antennas	
	Upper C-Band Directional Antenna (Interchange w/ Ku-Band SATCOM Antenna)	--	
	C-Band, Lower Directional w/ Omni	--	
TCDL/ Ku-band	30" SATCOM Dish Assy (USAF) Ku (Interchange w/ Upper C-Band Directional Antenna)	9.5" LOS Ku Band Dish Assy -or- Airborne 30" SATCOM Ku Band Dish Assy	
	--	Upper Omni Antenna, Ku-Band (60053385)	
	--	Lower 3" Compact Lower Directional Antenna, Ku (UWA79008-1)	
	IMA (Interim Modem Assy)	RFE (Radio Frequency Electronics) SMA (SATCOM Modem Assy) & MA (Modem Assy)	
ROVER	EVEA, Enerdyne Video Encoder Assy Video Compressor	Dual Delta Model 6020R Video Compressor (H.264 Encoder Video/Audio/Data with Ethernet/IP & Serial Interfaces)	
ROVER	ROVER, Remote Video Encoder Terminal	--	

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	Payloads & Sensors		
MTS	<u>USAF AN/AAS-52 MTS</u>	<u>US Army AN/DAS-2 EO/IR/LT MTS</u>	
SINCGARS Radio	--	Dual AN/ARC-201D SINCGARS Radio 1553 with 2 SINCGARS Blade Antennas (AV201)	
LYNX SAR	LYNX II SAR (RS-422 Interface) Capable		LYNX II SAR (Ethernet Interface)
EPLRS	--		EPLRS with EPLRS Antenna
	Weapons		
SSIU	SSIU (Stores System Interface Unit)		
Hellfire	4 Hellfire <u>Capability</u> (AGM-114P-4A)	--	4 Hellfire <u>Certified</u> : (AGM-114P-4A) <ul style="list-style-type: none"> ▪ 1 Hellfire 4-Pack Elec. Assy in left wing ▪ 4 Rails & Pylons (2 per wing)

Notes:

1. Capital aircraft is using UWA43220-1 Fuel Tray which is an earlier design replaced by UWA43400 (FFF identical)
2. Only differences are locations of avionics mounting hardware.
3. Capital aircraft is flying under a 100 knot airspeed restriction until the existing UWA23150-1/-2 Diagonal Tails and UWA23300-3 Vertical Tail/Rudder are replaced with the weighted versions
4. Longer Alpha/Beta Probe (UHK71000-1) fitted to Capital for flight test.
5. C-Band hardware installed in Capital and Block 1 aircraft #1 & #2 for flight test.