

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: ▪ 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 | -- | Airborne Audio Mixer | |
| TALS | -- | TALS (Tactical Automatic Landing System) in <u>Left Wing</u> | |
| Lightning Sensor | -- | Stormscope WD-500 with Antenna | |
| | Datalink | | |
| C-Band LOS | C-Band LOS Datalink (Dual Transmitters & Receivers) C-Band, Upper Omni | ^{Note 5} Flight Test Only 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) | |
| | 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</u> AN/AAS-52 MTS | <u>US Army</u> AN/DAS-2 EO/IR/LT MTS | |
| 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:

- Capital aircraft is using UWA43220-1 Fuel Tray which is an earlier design replaced by UWA43400 (FFF identical)
- Only differences are locations of avionics mounting hardware.
- 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
- Longer Alpha/Beta Probe (UHK71000-1) fitted to Capital for flight test.
- C-Band hardware installed in Capital and Block 1 aircraft #1 & #2 for flight test.