

RQ-4A Global Hawk Autonomous Aerial Vehicle System

Physical Specifications

Weight.....11500lbs Empty / 26500 MGTW
Wingspan116 Ft
Length44 Ft
Height.....15 ft

Powerplant

Single Rolls/Royce/Allicon 3007H Turbofan
7000lbs Seal Level Static Thrust

Fuel System

Capacity 2,500 Gallons / 14,500 lbs
Six Tanks – Wet Wing

Communications System

Ku Satcom Datalink.....(b) (3)
Dual Band CDL LOS (X, Ku)(b) (3)
UHF Band Satcom & LOSC2 Only
INMARSAT.....C2 Only
ATC Voice Relay via wideband datalinks

Electrical System

Dual Generators (DC & AC)
DC Gen12KW
AC Gen10KVA
Dual DC Flight Critical Bus
Three NiCd backup batteries, 45 minute reserve

Payloads

2000 lb payload weight
EO/IR Optical Sensor & SAR Radar Sensor

Ground Control Shelters

LRETakeoff, Landing, and Terminal Airspace
MCE.....Mission Operations / Sensor Ops

Airspace Operations

Limited See & Detect capability via nose camera
IFF Modes 1,2,3,C & 4

Flight Control System / Computers

Dual Redundant Flight Control Surfaces
(Inner/Outer)
Electric Control Actuators / Fly-By-Wire
Dual Mission Management Flight Control
Computers W/ Full Auto Failover

Dual Redundant Primary GPS/INS Navs
Dual Redundant Payload Support GPS/INS Navs
Dual 1553 Avionics Comm Busses

Mission Profile / Capabilities

Takeoff & Landing Runway < 8000 Ft
Initial ROC> 3200FPM
Descent RateUp To 5000FPM
Turn Rate/Radius
(b) (3)

Max Altitude65,000 Ft
Max Endurance35 Hrs
Max Range10,000 nm
Cruise TAS.....343 Kts / FL600
Approach Speed100 to 140kts (Varies w/ wt.)

Environmental Control System

Pressurized Avionics/Payload Compartments
Fuel System Thermal and Pressurization Control

(b) (3)