Integrated Avionics Systems
Mission tailored, maintainable, expandable

A Centralized Avionic Mission Management Computer (AMMC)
“Processes, Fuses, Displays and Controls Functions”

Navigation Systems

The H-1 Family of Avionics

Core Avionics
Navigation and digital map system
- Enhanced GPS/INS
- Air data
- TACAN
- ADF

Communications suite
- RT-1794 Fully integrated VHF/UHF

EW and self-protection
- Radar warning
- CHAFF/FLIR
- Missile warning
- Laser warning

Full glass cockpit with HOCAS controls
- 1,024 x 768 pixel displays
- Full access/control at all locations

Expansion Options
- Added pilot night vision system
- Incorporation of fire-control radar
- Implementation of Longbow missile
- Image capture, compression and data link

AH-1Z Unique
Wing stores weapons management and control
- Laser guided HELLFIRE
- Sidewinder
- 2.75 in. rockets
- Bombs/flare

20mm Gatling gun
- Digital gun turret and A/G-A/A ballistics

Target sighting system
- 3rd generation FLIR
- Color TV
- Stabilized turret

Integrated helmet display and sighting system
- Visor projected
- Integral I2 cameras
- Accurate DC magnetic tracker

UH-1Y Unique
Communication suite expansion
- Added VHF/UHF
- Expansion to SATCOM

Night targeting and pilot sensor
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Modular Cockpit Solutions
The H-1 Cockpit Family
- Common high-resolution displays
- Common screen formats (for core functions)
- Common HOCAS designs (for core functions)
- AH-1Z full “flight and fight” from both front and back seats

Reliability, Maintainability and Growth
- Full Avionic Mission Management Computer and displays redundancy
- Modular avionics components and modular scaleable software
- Avionic Mission Management Computer developed using high-performance technology, in accordance with open architecture standards
- Processing, memory, and bus margins approximately 75% as delivered

For more information, please contact:
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UH-1Y Cockpit Layout
AH-1Z Forward Cockpit
AH-1Z Rear Cockpit

AMMC through-put (AH-1Z)
- Used
- Reserve
- Fitted = 800 MIPS

Operating memory (AH-1Z)
- Used
- Reserve
- Fitted = 512 Mbytes

External avionic buses (AH-1Z)
- Used
- Reserve
- Fitted = 3 buses (8 available)