

FIGHTER SOLUTIONS

Affordable avionics for the warfighter.



Flexible solutions – new or upgrade, single component to turnkey system.

**Rockwell
Collins**

Building trust every day



350
250
200

13000
12000
11000

EMCOM

FUEL FLOW

15 CHAFF
9 FLARES

VMC #2 DEGO

VMC #1
FUEL PUMP
HYD

NWS H8

PHM

5 335.7 123.5

HOME 33
WRO 220.7
7 3:42

RWS NORM OVRD CNTL



SWAP RDY SMS DCLT





Fighter avionics advancements that only experience can deliver.

It comes down to this: Your fighter avionics solution must meet stringent platform requirements, and it must do this in an environment of increasingly complex capability demands with real-world budget constraints.

Rockwell Collins has been meeting these needs for decades, on platforms around the world. The advantages we bring to your warfighters begin with extensive fighter expertise in:

- Communications
- Navigation
- Head-up, helmet-mounted and head-down display technologies
- Controls
- Mission equipment
- Simulation and training
- Service and support

Far surpass your current capabilities with cutting-edge, affordable fighter solutions from Rockwell Collins. Our unique, balanced mix of key military and commercial avionics technologies enables us to design and build proven fighter solutions that meet both military and civil airspace requirements.

Reliable, secure and seamless connectivity

Fighter missions depend on sophisticated communications capability, often among multinational forces that need to share large amounts of secured data at high speeds.

Whether you require multi-frequency capability, data links, communication systems for line of sight or beyond, Rockwell Collins provides the connectivity that lets you receive and deliver the right information at the right time.



V/UHF radio



HF radio



HF-9000D



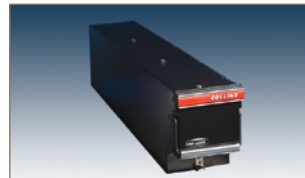
Link 16



TacNet™ Tactical Radio



TacNet™ Weapon Data Link



Civil VHF radio

Key benefits and features

- Advanced data links and networking products
- Full complement of communication subsystem integration software
- Dedicated controls to support non-integrated applications
- Civil-certified communications solutions for applicable military platforms
- Global presence

Pinpoint accuracy, anti-jamming/spoofing and other security

Built to withstand the extreme operating conditions of the fighter environment, our navigation solutions provide accurate, reliable navigation and guidance with options for anti-jamming and selective availability anti-spoofing module (SAASM) protection.

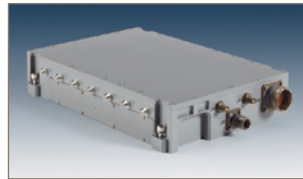
Enhance your fleet's situational awareness, safety, precision targeting and more with advanced solutions from Rockwell Collins – military airborne navigation pioneer and innovator, as well as a standard supplier of navigational technology for the U.S. military.



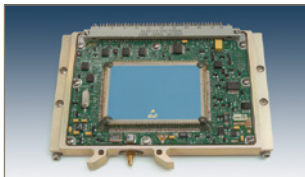
Tactical air navigation (TACAN)



*VHF omnidirectional radio range/
instrument landing system*



Digital GPS anti-jam receiver (DIGAR)



Airborne SAASM module



*Civil traffic alert collision avoidance
system (TCAS II) transponder*



*Civil space-based augmentation
system GPS*



*Civil VHF omnidirectional radio/
instrument landing system/marker
beacon/automatic direction finder*



Civil air data

Key benefits and features

- Advanced, integrated navigation sensors
- World leader in military GPS and anti-jamming technology
- Civil-certified solutions for ADS-B, CNS/ATM, ground- and satellite-based augmentation systems
- Developing next-generation capability and insertions such as the joint precision approach and landing system, M-code and global navigation satellite system receivers

Head-up and helmet-mounted displays

Eyes-forward awareness, industry-leading advantages

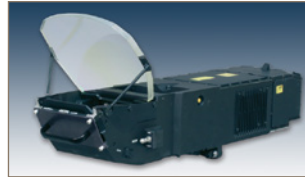
Innovative head-up display (HUD) and helmet-mounted display (HMD) design reduces size, weight, power and cost (SWaP-C) while providing unsurpassed pilot visual imagery and cueing for increased situational awareness.



F-18 HUD



F-15E HUD



Gripen HUD



F-35 HMD system



Joint helmet-mounted cueing system (JHMCS)

Key benefits and features

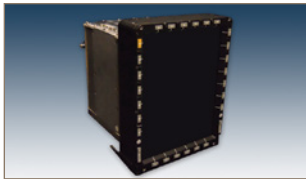
- Digital HUD solutions, including retrofit kits to existing HUDs
- Helmet systems provide head tracking and targeting capabilities
- Maximal fields of view, both binocular instantaneous and total
- Proven fighter HUD experience

Head-down displays and controls

High optical clarity and system flexibility

Achieve sunlight readability amid canopy reflections. Rockwell Collins provides complex, precision optics for exceptional performance in a military-hardened package that stands up to the thermal and vibrational loads of the fighter jet. Embedded elements for maximum SWaP-C advantages. Expect features that illustrate the culmination of 30-plus years of display experience applied with a fighter focus.

That experience includes upgrading legacy, CRT-based displays with form/fit/functionality replacements of our color, active-matrix liquid crystal displays (AMLCDs).



Gripen multi-function display



Stray light control



Hands-on throttle and stick (HOTAS)



F-22 display suite



F-15 display suite



F/A-18 display suite

Key benefits and features

- › World leader in display technology
- › Provider of more than 12,000 active matrix liquid crystal displays per year
- › Processor, input/output and graphics in the display head
- › Significant reductions in canopy reflectivity from display surfaces

Mission equipment

Sustained peak performance, easy adaptability

Whether for a new installation or an upgrade, mission equipment from Rockwell Collins brings the flexibility to fit virtually any platform and performance requirement. Modular design makes individual components scalable to available space. Open system architecture makes software upgrades fast and cost-effective, maintaining advanced capability throughout the equipment's life cycle.

Open system architecture enables third-party software development and makes software upgrades fast and cost-effective, maintaining advanced capability throughout the equipment's life cycle.

Key benefits and features

- › Multiple configurable mission computer packages
- › Mass storage devices based on commercial off-the-shelf data storage media – 4x128 Gb
- › Video and audio recording to MPEG-2
- › Open system architecture



F-35 distributed aperture system lens



Data loader



Attack computer



Flight and mission computer 4000



Mission computing



Cockpit interface unit



HUD control panel



Missile control unit



Eurofighter defensive aids computer

Simulation and training

Superior realism combined with cost effectiveness

Choose from a broad range of simulation and training systems to take full advantage of cost-saving efficiencies without compromising training quality. Fighter-pilot applications deliver industry-leading fidelity and simulation realism for positive training in the complex, fast-jet environment. Specialized applications include visual/sensor simulation and helmet-mounted displays.

Our simulation and training solutions feature rehosted Rockwell Collins avionics software and customizable scenarios. All for the most effective training experience.



Computer-based trainers



Avionics/systems trainers



Flight simulators



Image generators



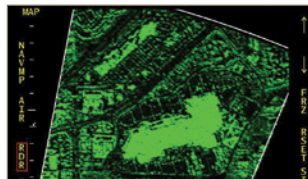
Display systems



Projection systems



Head- and helmet-mounted displays



Radar/sensor simulators



Maintenance trainers

Key benefits and features

- › Turnkey integrated training solutions and devices for military and commercial markets
- › Complete visual system products and solutions
- › Crew training and courseware development
- › Common and open architecture supports element re-use and simplifies maintenance and concurrency
- › Embedded training solutions
- › Distributed mission training

Service and support

FlexForce™ life cycle service solutions

When you need a replacement multifunction display for an F-15 in Singapore or an ARC-210 unit for an F/A-18 in Australia, FlexForce™ from Rockwell Collins can guarantee the availability and reliability of systems, subsystems and equipment, where and when you need them.

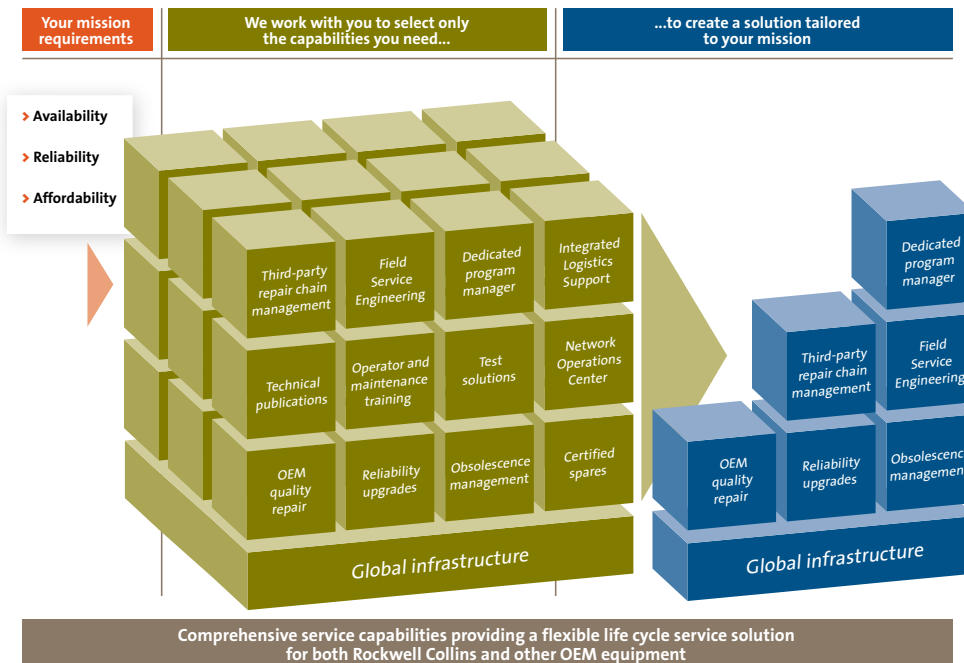
Whether it's servicing one Line Replaceable Unit (LRU) on 2,000 aircraft, 6,000 LRUs on 200 aircraft across five platforms or providing comprehensive support of your platform – we have the solution. FlexForce includes Rockwell Collins and other OEM equipment.

Key features

- Dedicated support personnel available 24/7
- Repair chain management, from a single repair to guaranteed equipment availability for an entire fleet
- Material services, including OEM certified parts, obsolescence management, recertified parts, spares or parts buy-back in upgrades
- Global infrastructure, processes and tools

Customer benefits

- Guaranteed availability** for improved mission readiness
- Enhanced reliability** through performance guarantees
- Affordability** resulting in reduced life cycle costs



Building trust every day.

Rockwell Collins delivers innovative aviation and high-integrity solutions to commercial and government customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

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