MILITARY & AEROSPACE ELECTRONICS INTELLIGENT AEROSPACE INNOVATORS AWARDS Military & Aerospace **COMPUTERS CYBER UNMANNED SENSORS RF/ANALOG POWER COMMUNICATIONS TEST** Home » Unmanned Vehicles » Air Force to convert 30 F-16 jet fighters to target drones in \$34.4 million order to Boeing Open +

Air Force to convert 30 F-16 jet fighters to target drones in \$34.4 million order to Boeing

March 30, 2016 By John Keller Editor

EGLIN AIR FORCE BASE, **Fla.**, **30 March 2016**. Military avionics experts at the Boeing Co. will convert 30 retired U.S. Air Force Lockheed Martin F-16 jet fighters into sophisticated manned and unmanned target drones under terms of a \$34.4 million order announced Monday.

Officials of the Air Force Life Cycle Management Center at Eglin Air Force Base, Fla., are awarding a contract modification the Boeing Defense, Space & Security segment in St. Louis to handle the conversion of 30 F-16 fighters into unmanned QF-16 full-scale aerial targets (FSATs).

Boeing won a \$28.5 million contract in March 2015 to convert 25 retired F-16 fighters in QF-16 target drones. Monday's order exercises an option on that contract.

The Air Force has used converted jet fighters as target drones for decades, beginning in the 1960s when the Air Force converted 24 Lockheed F-104 Starfighter jets into target drones.

Other U.S. jet fighters, including the F-100, F-102, F-106, and F-4, have become target drones. Air Force experts use converted jet fighters as target drones to test sophisticated missiles and electronic warfare systems.

Related: Kratos high-performance target drones to put air-to-air missiles through their paces

MIL&AERO; COMMENTARY



Demand for shipboard power generation and control has no end in sight



Commodity COTS military technology and its potential

Although some of these retired jet fighter target drones are destroyed during weapons tests, often the drones rely on onboard sensors to calculate the point of missile detonations to record "kills" without destroying the target aircraft.

Monday's order represents lot 4 of the Air Force's planned QF-16 target drone buy. These aircraft are replacing the Air Force's fleet of QF-4 target drones, which are converted McDonnell Douglas F-4 Phantom jet fighters, which were phased out of active service in the 1980s.

The newer QF-16s are bringing a new level of sophistication to U.S. supersonic target drone capability. The F-16 is a fourth-generation fighter, and brings new challenges for weapons testing over the third-generation F-4.

Boeing started converting F-16s into the first QF-16 drones in 2010. Company experts strip down retired F-16 fighters to remove unnecessary parts like the jet's 20-millimeter cannon and APG-66/68 radar. Boeing alters the aircraft to fly unmanned or with human pilots.

Related: Navy asks Orbital Sciences to build supersonic target drones for anti-ship missile training

Boeing also installs a flight termination system that can destroy the drone if it goes out of control, command telemetry systems so operators can control the drone can be controlled from the ground, a scoring system to gauge the accuracy of air-to-air missiles fired at the drone, as well as avionics packages to enable these plans to fly unmanned.

This lot-4 F-16 conversion will bring the QF-16 fleet to 106. Air Force leaders are expected to buy a total of 120 QF-16 target drones through 2019. Optionally Air Force leaders are considering buying a total of 210 QF-16 through 2022. The fleet should last until 2025.

threat to military capability and innovation



Advances in periscope-hunting anti-submarine radar promises to keep the enemy's head

down

TODAY'S NEWSFEED

Worldwide Military Aircraft Avionics Market Overview by Region, Type, Application and Forecast To 2021

Worldwide Military Aircraft Avionics Market by Region, Type, Application and Forecast To 2021

Harris Corporation and Florida Tech Host Florida Unmanned Aircraft Summit

The first manned QF-16 flight was in May 2012, and the plane's first unmanned flight was in September 2013. On Monday's contract, Boeing will do the work at Cecil Field in Jacksonville, Fla., and should be finished by April 2018.

For more information contact Boeing Defense, Space & Security online at www.boeing.com/defense, or the Air Force Air Force Life Cycle Management Center at www.wpafb.af.mil.











Get All the Military Aerospace Electronics News Delivered to Your Inbox or Your Mailbox

Subscribe to Military Aerospace Electronics Magazine or email newsletter today at no cost and receive the latest information on:

- C4ISR
- Cyber Security
- Embedded Computing
- Unmanned Vehicles

Free Newsletter Subscription



Free Magazine Subscription



POPULAR BUYER'S GUIDE CATEGORY SEARCHES

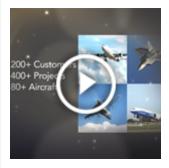
- Board Products
- Communications
- Components/Power Electronics/Sensors
- Computers
- Diagnostics & Control

2016 INNOVATORS AWARDS VIDEO SHOWCASE



Abaco's AXIS – Advanced Integrated Software Development Tools Recognized with a Gold Award by the Military & Aerospace Electronics Innovator's Awards program

AXIS is a complete development environment designed to minimize the cost, risk and time-to-deployment of multi-processor and multi-board military embedded computing applications. It provides a complete set of powerful, flexible, intuitive tools and libraries that support the entire development process, from design through debugging, optimization and testing. Applications developed with AXIS are both scalable and portable.



Wind River Award-Winning ARINC 653 RTOS

Wind River® VxWorks® 653 is the leading RTOS for ARINC 653 time/space separated systems and is proven in over 200 customers in over 400 programs and flying in over 80 aircraft.

Rugged Airframe Cable Assemblies

Today more than 75% of microwave cables fail frequently, with about 36% needing to be replaced once a year. GORE-FLIGHT™ Microwave Assemblies, 6 Series are lightweight cable solutions that provide a true "fit-and-forget" installation option, delivering the lowest insertion loss before and after installation, and ensuring reliable performance for the life of the system.

- Electro-Optics
- Navigation
- Platform Systems/Subsystems
- RF & Microwave
- Safety Equipment & Components
- Services
- Software
- Test & Measurement
- Thermal Management/Cooling Systems

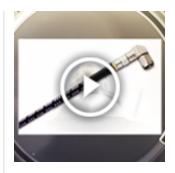
Update or Enhance Your Listing

PRESS RELEASES

Ametherm Glass-Encapsulated Thermistors Deliver Long-Term Stability and Reliability for Automotive and Industrial Applications

REMINDER/Media Advisory:
Bombardier to report Fourth
Quarter and Fiscal Year 2016
Financial Results on February 16,
2017

3DX Industries Prints Intake Manifold for Jessco Racing



Press Releases powered by MARKET WIRED

NEWSLETTERS

Military & Aerospace Electronics

Weekly newsletter covering technical content, breaking news and product information

SUBSCRIBE

Cyber Security

Monthly newsletter covering cyber warfare, cyber security, information warfare, and information security technologies, products, contracts, and procurement opportunities **SUBSCRIBE**

Defense Executive

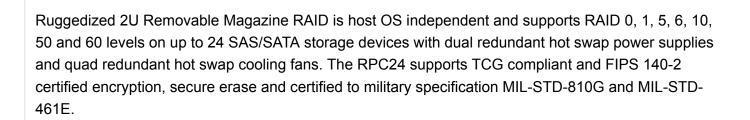
Monthly newsletter covering business news and strategic insights for executive managers

SUBSCRIBE

Electronic Warfare

Quarterly newsletter covering technologies and applications in electronic warfare, cyber warfare, optical warfare, and spectrum

Phoenix International Systems' RPC24





Curtiss-Wright M60 Main Battle Tank Turret Drive System Upgrade

Upgrading M60 battle tanks with modern electro-mechanical turret drive systems provides a quick, cost-effective solution for significantly boosting the performance of older hydraulic and hybrid turret drive-based battle tanks. This enables them to meet the threat posed by newer and far more costly platforms.



Applied Avionics, Inc. – LOGIC Component Technology

LOGIC Component Technology inside of VIVISUN® lighted pushbutton switches offers over 1,000,000 system integration solutions. Mix-and-match components include latching flip-flops, solid state relays, Boolean logic gates, voltage sensors, pulse/timers, electronic rotaries, diodes and terminal junctions.



Military & Aerospace Electronics 2016 Innovators Awards Program Platinum Level Winner: V-SHIELD® DC-DC converter packaging

The Military & Aerospace Electronics Innovators Awards platinum level recognition is reserved for military and aerospace electronics featuring superb innovation which is characterized by a groundbreaking approach to meeting a need, a new level of performance, efficiency and/or ease-of-use. This video covers how VPT reached each of these benchmarks with its rugged, fully encapsulated DC-DC converter V-SHIELD® epoxy packaging

warfare.

SUBSCRIBE

Embedded Computing Report

Monthly newsletter covering news on embedded computing in aerospace, defense and industrial-rugged applications

SUBSCRIBE

Unmanned Vehicles

Monthly newsletter covering news updates for designers of unmanned vehicles

SUBSCRIBE

DOWNLOAD OUR APPS







Android

iPhone

iPad

FOLLOW US ON...











TOPIC INDEX

TODAY'S HEADLINES

Artillery shells to GPS-guided smart munitions

Air Force attack drones will fire laser weapons

Red and near-infrared (NIR) photodiode for electro-optics applications introduced by

Navy orders 12 new F/A-18E and EA-18G carrier based electronic warfare (EW) and bombe...

Tests begin for Lockheed Martin X-Plane design for quiet supersonic aircraft

Harris eyes spectrum warfare technologies blending electronic warfare (EW) and optica...

Air Force to retire the iconic Predator drone

EDITOR'S PICKS

Navy orders 12 new F/A-18E and EA-18G carrier based electronic warfare (EW) and bomber combat jets

Harris eyes spectrum warfare technologies blending electronic warfare (EW) and optical warfare

View Military & Aerospace Electronics articles by topic, A-Z

ARTICLE ARCHIVES

View the Military & Aerospace Electronics article archives

Air Force orders unmanned aircraft flight simulation gear for practice and mission rehearsal

Navy chooses radiation-hardened cameras from Malin Space Science for geosynchronous satellites

Demand for shipboard power generation and control has no end in sight

Raytheon bumps-up production of Special Forces terrain-following radar to infiltrate warfighters

Arete to build electro-optics multispectral UAV sensor payloads to find mines on invasion beaches

MAGAZINE



COVER STORY:

Contract manufacturing: there when you need it

VIEW ISSUE NOW

FREE SUBSCRIPTION

BUYER'S GUIDE SPONSORED PRODUCTS



μΟΝΥΧ: The design advantages of rugged SFF mission computers

With its fantastic SWaP-C features: 3 liters, 3 kilos, 30 Watts based on the Core i7 Skylake SoC, it offers higher availability, distributing high-performance computing and avoid single point of failure and thermal hot spots in extreme environments.COM Express based with PMC and miniPCle sites, μ ONYX offers 2 removable 2.5" SSD and full speed USB 3.0 for quick down/up

data loading. Last but not least: with μ ONYX, we continue to offer configurable front panel for different I/O profiles.





FEATURED BUYER'S GUIDE COMPANIES





























Browse All Products | Browse All Companies | View Buyer's Guide Digital Edition |

RELATED PRODUCTS





VPX6-197 6U OpenVPX SBC with NXP

T2080

Curtiss-Wright Defense Solutions' VPX6-197 is the latest generation OpenVPX-compliant 6U SBC that...

FireBird Quad USB 3.0 Host Controller

The FireBird Quad USB 3.0 Host Controller supports four USB 3.0 ports arranged as two ports per h...

SSBP Coax Contacts for MIL-DTL-38999

Southwest Microwave SSBP coax contacts feature min. 80 dB shielding effectiveness and are designe...

RELATED COMPANIES



Data Device Corp (DDC)

Delivering Performance and Reliability... As No One Else Can! Advancing High-Reliability Data Networking and Power T...





Crane Aerospace & Electronics

Crane Aerospace & Electronics combines the experience of long-time industry leaders to supply critical systems an...

Interstate Connecting Components

About ICC Since it was founded in 1985, Interstate Connecting Components (ICC) has grown into one of the pre-eminent...

WEBCASTS

Applications of digital radio frequency memory (DRFM) technology in electronic warfare (EW)

Noted EW expert Dave Adamy of Lynx Publishing in Atwater, Calif., will discuss applications of DRFM technology in electronic warfare systems, as well as enabling technologies, in this hour-long Webcast at 1 p.m. eastern time (noon centra...

Sponsored by



Military & Aerospace Electronics Innovation Awards Presentation

Please join John Keller, editor-in-chief of *Military & Aerospace Electronics Magazine*, as he presents the first Military & Aerospace Electronics Innovation Awards!

WHITE PAPERS & EXECUTIVE BRIEFS



Radar Signal Generation with a High-Performance AWG

Radar ensures the safety and security of the skies, and lives depend on it. That's why radar design measurements call for ...

Sponsored by Tektronix



Advanced Radar Analysis Application Note

Developing and manufacturing highly specialized and innovative electronics to detect today's radar signals takes leading-e...

Sponsored by Tektronix



Ethernet for Real-Time Embedded Systems: An Overview

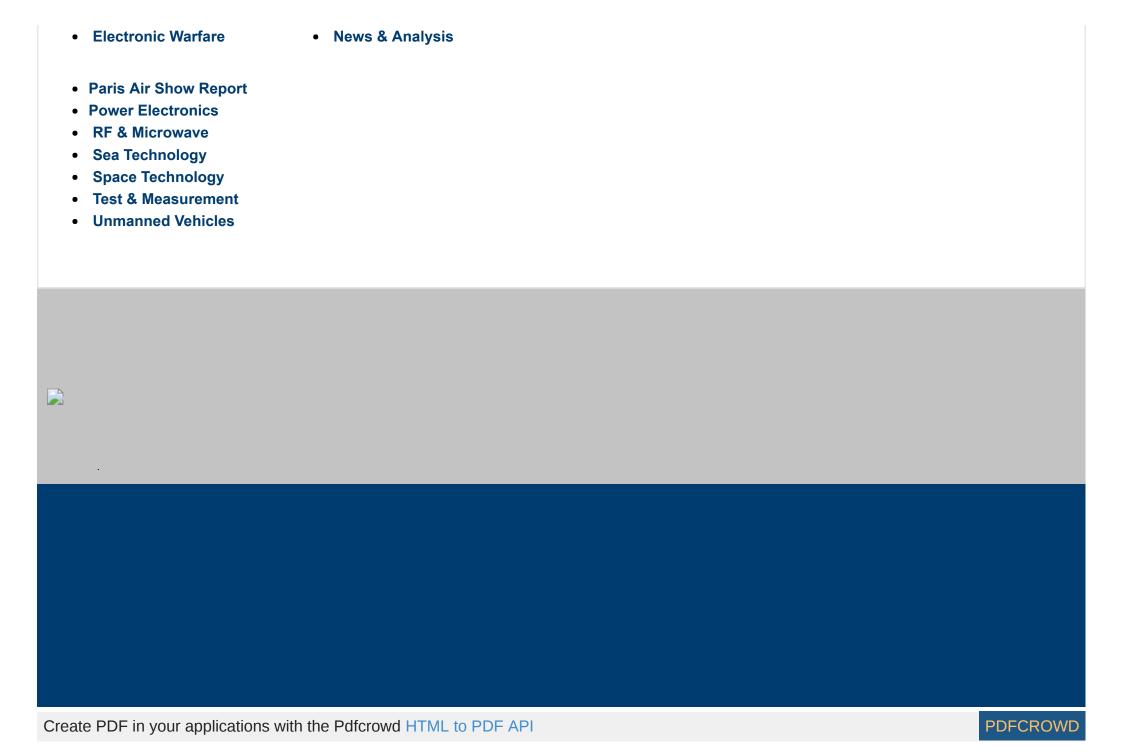
Ethernet has become a ubiquitous technology in embedded systems. Early Ethernet standards suffered from limitations that m...

Sponsored by Curtiss-Wright Defense Solutions

BROWSE ARTICLES BY TOPIC

- Adhesives & Encapsulants
- Aviation Technology
- C4ISR
- Cyber Security
- Defense Executive
- Electro-Optics

- Embedded Computing
- Farnborough Report
- High-Reliability Electronics
- Interconnect Technology
- Land Technology
- New Products



UTILITY	TOPICS		DEPARTMENTS	
Home	Adhesives & Encapsulants	Interconnect Technology	Defense Executive	Paris Air Show Report
Subscribe	Aviation Technology	Land Technology	Exclusive Content	Print Issue
Advertise	C4ISR	Power Electronics	Farnborough Report	Product Applications
About Us	Cyber Security	RF & Microwave	Headlines	Product Focus
Contact Us	Electro-Optics	Sea Technology	Mil & Aero Commentary	Rapid Fire
	Electronic Warfare	Space Technology	Mil & Aero Wiki	The Last Word
	Embedded Computing	Test & Measurement	New Products	Video
	High-Reliability Electronics	Unmanned Vehicles	News & Analysis	Wire News

AEROSPACE DEFENSE MEDIA GROUPS

Military & Aerospace Electronics

Intelligent Aerospace

Copyright © 2007-2017 PennWell Corporation, Tulsa, OK. All Rights Reserved. Terms & Conditions | Privacy Policy | Site Map