

### Mission Computing & Avionics

Mercury Mission Systems' expertise and experience in safety certifiable solutions has been built on successful execution of dozens of programs over three decades. This domain knowledge is the foundation of our BuiltSAFE™ modules, systems and software for avionics, communications, video servers and mission computing. Our latest rugged safety certifiable building blocks have backwards compatibility and are designed with a top-down approach for interoperability and ease of pre-integration.

Capability Highlights

Highest Design Assurance Level (DAL-A) for both DO-254 software and DO-178 hardware 30+ years
designing/manufacturing
deterministic processing
solutions for safety
certification

EASA, FAA, JAA, and Transport Canada safety certification experience lowers program risk

More I/O interfaces, including the only safety certifiable Ethernet and MIL STD 1553 data bus

**Products & Services** 

#### Avionics Subsystems

(/mission-computing-safety-dal/chassis-products/)

#### Single Board Computers

(/mission-computing-safety-dal/single-board-computers-products/)

Video & Graphics

(/mission-computing-safety-dal/video-graphics-products/)

# I/O, Carriers & Storage

(/mission-computing-safety-dal/io-carriers-storage-products/)

#### **Graphic Software**

Safety Certification Services

(/mission-computing-safety-dal/graphic-software/)

(/mission-computing-safety-dal/certification-services/)

Downloads



#### **NEW! The Military Digital**

Convergence 🚣



(http://info.mrcy.com/1805-MMS-WP-MilitaryDigitalConvergence\_ShortformLP.html?ch=mrcybanner)



**COTS Safety Certifiable** 

Processing Solutions

(http://info.mrcy.com/1701-WP-

LowRiskCOTSApproachtoCertifiableProcessingSubsystems\_WebshortformLP.html?ch=mrcy)



3rd-party Contributed - DO-254

Compliance 🚣



(/contentassets/8c2b9ba424a64a288ba2d528b35accf3/understanding-do-254-whitepaper-text\_gpgpu\_a.pdf)



## Short Form BuiltSAFE Product Brochure

(/contentassets/27175def27334e0da6bbe0ead8712b94/33363.00e-1017-br-cots-dal.pdf)



Full BuiltSAFE Product

Brochure

(/contentassets/5e71de7a54e3453b9d98b1a4f3c2a07d/missioncomputing-product-guide.pdf)

#### Future Airborne Capability Environment

BuiltSAFE systems are aligned with the FACE  $^{\text{TM}}$  2.1 technical standard and were demonstrated at the November 2017 FACE Technical Interchange. One demo ran VxWorks 652, and second demo ran INTEGRITY-178 tuMP  $^{\text{(B)}}$ .

#### In-House Safety Experts

We do not just claim our products are safety certifiable and leave it as an exercise for the customer, we have the project experience going through certification and can help you through yours.

Key components used in our BuiltSAFE solutions are carefully selected for determinism, performance, reliability and sustainability. CPUs and other critical devices may be mounted to mezzanines to ease future tech refreshes and re-certifications. We commit to maintain and support established products and facilitate migration to new product generations with full backwards-compatibility.

To extend product life we have developed multiple management techniques including stocking, multi-sourcing and utilizing FPGAs to mitigate specific device dependence. Whatever your strategy, we are at your side to extend the lifetime of your solutions.

Request More Information (http://info.mrcy.com/MPRMI.html?url=/mission-computing-safety-dal/)



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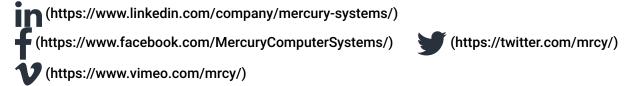
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