



ACCURIS | CHIPSID

Safeguarding Aerospace & Defense

Counterfeit Mitigation Strategies

The Threat of Counterfeit Parts

Counterfeit components present significant risks to the aerospace and defense industries. Over **\$75 billion is lost annually** due to their infiltration of supply chains. The impact of these malfunctioning components can cause mission failures, financial losses, and safety hazards.

Top Root Causes:

- 1 Obsolescence & DMSMS
- 2 No Centralized Authentication & Traceability
- 3 Supply Chain Disruptions & Shortages

A Proactive Approach to Counterfeit Prevention

By combining golden sample authentication, real-time part intelligence, and predictive lifecycle analytics, manufacturers can prevent counterfeits before they reach production.



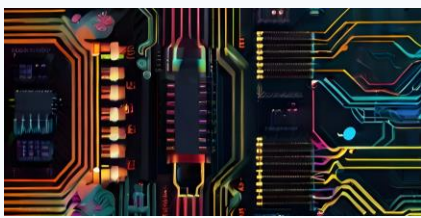
Golden Samples Database

Leverage a centralized database of verified electronic components to authenticate parts.



Parts & BOM Intelligence

Identify at-risk parts and assess alternate components to reduce dependency on the open market.



Real-Time Integration




Integrate part data into PLM, ERP, and PDM systems to ensure traceability and compliance.

The Counterfeit Mitigation Framework




Traceability	Maintain documentation for OCM-origin parts, including Certificates of Conformance, to ensure visibility from sourcing to deployment.
Authorized Suppliers	Prioritize original component manufacturers and verified distributors, minimizing reliance on high-risk brokers.
Inspection Protocols	Strengthen verification with Golden Sample cross-referencing, using optical imaging, X-ray analysis, and die inspection to detect counterfeits.
Parts Data Intelligence	Integrate with advanced Parts & BOM Intelligence tools to proactively address traceability gaps and obsolescence risks before procurement.

Bridging the Gap: Strengthening Supply Chains Against Counterfeits

Challenges in Current Model

-  **Reactive Approach** – Parts are tested for authenticity only after procurement.
-  **Limited Visibility** – No unified golden sample repository for reference.
-  **High Costs & Risk** – Dependence on brokers increases exposure to counterfeits.

Value of Proposed Model

-  **Proactive Authentication** – Database of verified Golden Samples.
-  **Integrated Data Flow** – Real-time part availability, compliance, and lifecycle tracking.
-  **Secure Sourcing** – Ensures OCM-traceable components for long-term sustainability.

Building Resilience Through Data-Driven Defense

chipsID and Accuris provide a data-driven approach to mitigate counterfeits, combining authentication of golden samples, access to the latest industry standards, and real-time intelligence on parts and BOM to proactively prevent risks and ensure a resilient supply chain.



Golden Sample Authentication





- **Verify parts** against known authentic samples.
- **Advanced detection** with optical imaging, X-ray, and die inspection.
- **Ensure compliance** with the latest versions of DFARS, SAE AS6081, and AS6171.
- **Centralized database** for secure collaboration across supply chains.

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Intelligence-Driven Risk Management

- **Predict obsolescence** & avoid last-minute sourcing risks.
- **Find trusted alternatives** to reduce redesign costs.
- **Monitor supplier data** for timely component lifecycle insights.
- **Automate engineering & supply chain workflows** with integrated API access.

The chipsID & Accuris Advantage

-  **End-to-end counterfeit prevention** from design to procurement.
-  **Seamless integration** of authentication & lifecycle intelligence.
-  **Regulatory compliance** with industry standards and requirements.
-  **Future-proof sourcing** with proactive supply chain risk mitigation.

Take the Next Step in Counterfeit Mitigation

Want to dive deeper into how chipsID and Accuris are transforming counterfeit risk management?

READ THE BLOG

The Golden Samples Shield: How Data & Authentication Mitigate Counterfeit Risks in Aerospace

Discover how Golden Samples and real-time component data work together to prevent counterfeit infiltration in aerospace and defense.

DOWNLOAD THE WHITEPAPER

Counterfeit Electronic Parts Mitigation Strategy Guide for Aerospace and Defense

Gain expert insights on counterfeit risks, supply chain vulnerabilities, and the strategies needed to mitigate them. Learn how to enhance traceability, obsolescence planning, and regulatory compliance, ensuring a more secure and resilient supply chain.

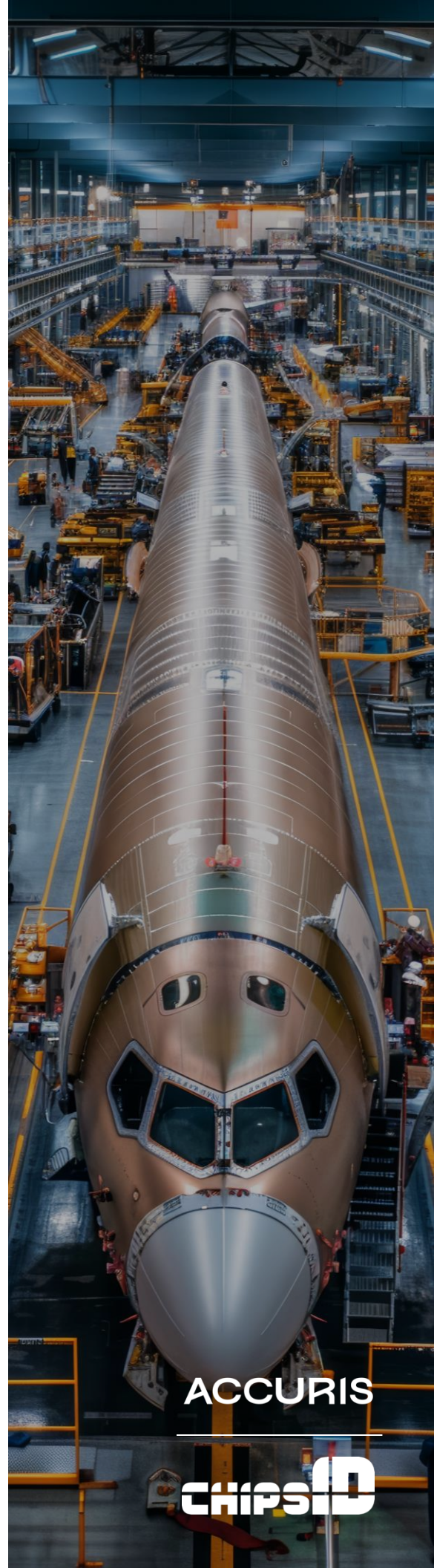
[Read the Blog & Get the Whitepaper](#)

Have Questions?

Contact our team to learn how chipsID and Accuris can help secure your supply chain.

www.chipsid.com

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