

**CASE STUDY**

# DUALOS TAKES FLIGHT WITH DURABOOK

Dualos is an aerospace value-added distributor, architect, and solution integrations partner for Durabook. Working in collaboration, they provide systems, custom products, and integrated solutions for their collective customer base in the areas of avionics, cyber systems and RF, 5G/6G testing, simulation, and custom architectures.

CUSTOMER	CHALLENGE	SOLUTION
Dualos	Many Dualos customers need, expect, and demand full assurance that the laptops and tablets used in their labs and deployed platforms do not transmit audio, video, or have RF communications.	Working together, Dualos and Durabook created an attractive, cost-effective solution. Using Durabook's rugged tablet U11 and laptops S14I and Z14I as bases, they developed the Secure Quiet Dualos exclusive product line.



## ABOUT DUALOS

Dualos is made up of a group of subject-matter experts who focus on creating solutions for select OEMs with a direct focus on aerospace and defense-related sectors. Founded in 2008, it is a Native American- woman-owned HUBZone small business.

Leveraging its expertise, Dualos offers an ecosystem of services comprised of global business development, go-to-market strategy, and complex-program supply-chain management. Data security and protection of its customers' information are of utmost importance. It holds the latest ISO and Aerospace certifications for quality management, along with the US government's most recent cyber security mandates.





## CHALLENGE

Many Dualos customers need, expect, and demand full assurance that the laptops and tablets used in their labs and deployed platforms do not transmit audio, video, or have RF communications. Plus, some customers need rugged, high-performance, dependable systems that do not allow accidental or easy-to-subvert electronic communications.

Typically, these customers used standard consumer/commercial laptops or rugged systems from large-box retailers or resellers. However, these devices come with audio, video, and general RF capabilities in their hardware for the most part. While commercial laptops and tablets are inexpensive at initial cost, their total cost of ownership is significantly higher, and lab or aircraft processes have to be mitigated for their use.

Dualos faced these five very non-trivial problems in finding a solution to satisfy their customers' needs:

1. Lab and aircraft areas are sensitive to RF noise and communications
2. Even when Ethernet connected the systems, no comms are to leave the sensitive or classified areas (no audio or video)
3. System downtime was costly,

- and since they are mobile devices, they are prone to be damaged
4. Standard consumer/commercial laptops and rugged system providers charge significantly per feature
5. Integration, low MOQ customization, limited technical support, and readily available certs

## SOLUTION

Working together, Dualos and Durabook created an attractive, cost-effective solution. Using Durabook's rugged tablet U11 and laptops S14I and Z14I as bases, they developed the *Secure Quiet* Dualos exclusive product line. The *Secure Quiet* Dualos exclusive product line includes a set of upgraded features and no RF, no video, no microphones, and a NIST-compliant BIOS with the ability to turn off any ports, restricting other connectivity.

Dualos took advantage of Durabook's 35 years of proven customer support and experience working with end-users in identifying key requirements, providing necessary technical documentation, and regularly updated training. Working together, they create and support the Dualos exclusive *Secure Quiet* product line (U11SQ2, S14SQ2, Z14ISQ2), including the X14ISQ2, a rugged laptop with the full performance of the Z14ISQ2 and two PCIe expansion slots.

Dualos is built on the Durabook base models, which have many standard features, considered custom by other rugged brands. All *Secure Quiet* systems include proprietary DynaVue® direct sunlight/night-vision display; fanless high-performance i7 processors; CAC slots, PCMCIA, ExpressCards, Serial, and hot-swap battery technology along with numerous other expansion capabilities.

Aside from highly useful features sets, Durabook's U11 tablet and Z14I laptop products are MIL-STD-810H, MIL-STD-461G, ANSI/ISA 12.12.01-2000, Class I, Division 2, 6'-drop rated, and IP 65 certified. Further, the Z14I laptop is MIL-STD-810H, and MIL-STD-461G certified. The S14I laptop is MIL-STD-810H certified and offers up to 64GB RAM and GTX1050 graphics options.

## RESULTS

One mil/aero customer's comment sums up the feelings of everyone that has experienced the collaborated, hybrid solution: "All of these features for this price? I don't see a need to purchase from anyone else. I'm tired of the current rugged computers from IT falling apart, and they charge us for each individual feature."