



# HIGH-DEFINITION VIDEO OVER LEGACY CABLING



## Increased Capabilities, Minimal Modification

Using modules aligned with FACE™ Technical Standard 2.1, in cooperation with Edgewater Computer Systems, Inc. (ECSI), KIHOMAC has demonstrated high-definition video transmitted between two COTS units over decades-old aircraft wiring while coexisting with legacy traffic.

This solution provides an innovative route to supporting high-bandwidth devices on legacy platforms, offering up to 100 Mbps in bandwidth without expensive rewiring. The use of commercial off-the-shelf (COTS) equipment allows for further cost-saving opportunities.

Alignment with the FACE™ Technical Standard allows for stronger interoperability and reuse of central computer interface and NFS client-embedded code on future development efforts.

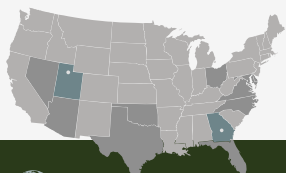
## Capabilities

- Use of Low-Cost COTS Equipment
- Integration of STANAG 7221
- Up to 100 Mbps of Bandwidth
- Up to Two Orders-of-Magnitude Bandwidth Increase on Legacy Technologies
- Interfaced with Legacy Equipment on the Same Wiring as High-Speed Data Transfer
- Low-Latency Data Transfer
- Real-Time Encoding and Decoding of High-Definition Video
- Menu Overlay Generation Using OpenGL SC2
- Architecture Aligned with FACE™ Technical Standard 2.1
- Use of VxWorks 653 3.1.1

Up to  
**100 Mbps**  
Without Extensive Rewiring



- KIHOMAC Cabling Facility
- KIHOMAC Office



## About KIHOMAC

KIHOMAC is an Aerospace Engineering & Manufacturing company that, among its many disciplines, includes extensive experience with software design, development of flight and safety critical systems (DO-178).

