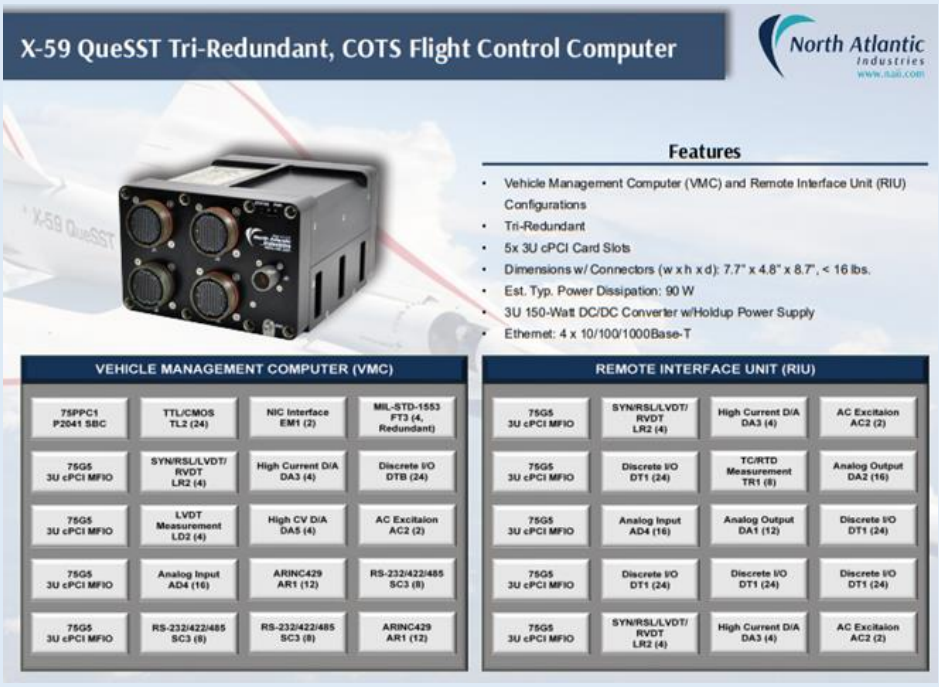
Supersonic Transport Applications

X-59 QueSST Aircraft

Vehicle Management Computer (VMC) and Remote Interface Unit (RIU)

NAI's solution begins with two rugged SIU35 systems; a Vehicle Management Computer (VMC) and Remote Interface Unit (RIU), connected via Gig-E. The VMC hosts Lockheed's vehicle management control and application software program on NAI's Single Board Computer, configured with additional Gigabit Ethernet (Gig-E) interfaces and modular I/O and includes four additional 3U multifunction I/O boards. The VMC also integrates Lockheed Martin's tuned FPGA PID control loops for direct LVDT measurement, D/A drive actuator control, greatly minimizing the host processing burden. The RIU houses an additional five 3U multifunction I/O boards, communicating to the VMC over GbE ports. The system supports hundreds of digital and analog I/O, including programmable Discrete, A/D, D/A, Thermocouple, RTD, SYN/RSL/LVDT/RVDT and AC Reference measurement signals along with several communications interfaces including MIL-STD-1553, RS-422, ARINC-429 and Ethernet. Function Modules available



Press Release

External Vision System

WOLF Advanced Technology ("WOLF") is pleased to announce that NASA has chosen two WOLF video graphics modules to take part in the development of NASA's X-59 Quiet SuperSonic Technology (QueSST) aircraft. The X-59 is designed to reduce the noise generated by a sonic boom. The chosen products, the XMC-E9171-VO (WOLF-3196) and the XMC-FGX2-SDI-4IO (WOLF-3180), provide video capture, process, encode, and display capabilities to help enable NASA's "windowless cockpit display system", the eXternal Vision System (XVS). NASA's XVS is designed to replace a front windshield with video display technology in NASA's Low-Boom Flight Demonstration mission.

Company Overview

Company Brochure

WOLF Products

TPT KK is a Wolf System Integrator

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