



AERO SIMULATION, INC.

PRODUCT INFORMATION REPORT

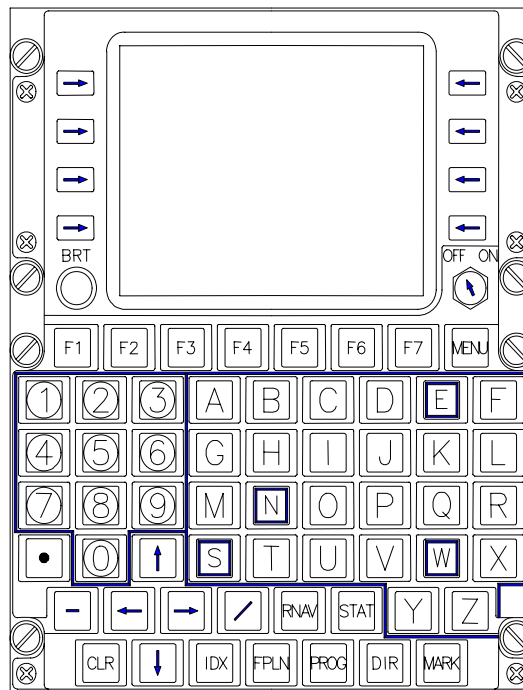
REAL-TIME SIMULATION OF GLOBAL POSITIONING SYSTEM (GPS)

DESCRIPTION:

Aero Simulation, Inc. has provided the U.S. Marine Corps and U.S. Navy with an inexpensive, reliable and timely Global Positioning System (GPS) simulation solution for today's flight simulators. This stand alone design provides the Government with the capability to utilize actual aircraft components for outstanding realism. The Aero Simulation, Inc. system will easily install in virtually every existing system with a minimum impact to current trainer resources.

WHAT WE'VE DONE!

This system has been successfully installed in three USMC KC-130 simulators and in one USMC and two US Navy EA6B simulators. These systems have been successfully training military aircrew members in the intricate procedures required to fully master this complex system. Our design permits rapid upgrade of the flight simulator with new operational flight programs after a minor modification to the Data Transfer Module (DTM) without modification of the simulator. This design is extremely modular providing flexibility to expand the system to incorporate our Traffic Collision Avoidance System (TCAS), Electronic Flight Instrument System (EFIS) and other upgrades (as in our KC-130 ASIP III upgrade) without impact to existing input/output resources.



WHAT'S IN THERE?

The GPS system utilizes a VME-based interface system which contains a Pentium CPU board, trainer interface board, MIL-STD-1553B bus interface board, digital input/output board(s) (as required), hard drive, floppy drive, and other interface boards as required. The VME chassis is installed in a 19-inch cabinet which contains all power supplies and interfaces for the system. This design allows the VME interface system to assume all the requirements of interfacing with the GPS system, circuit breakers, Remote Control Units, Control Display Navigation Units (CDNUs), Mission Data Loader (MDL), and other cockpit components. The existing trainer host computer requires minor software and hardware modifications to compute navigation inputs and outputs and interface communications to the GPS system. The system is expandable to include synchro and analog interfaces to aircraft instruments and controls.

