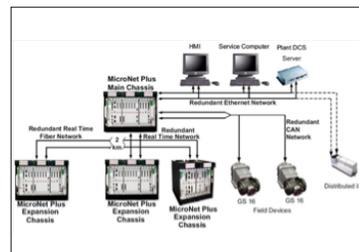# Woodward MicroNet Plus Upgrade

Product Description

- Controls upgrade from Mark VI and Fanuc 90-70 to Woodward MicroNet Plus, the latest evolution of the MicroNet control system that has been developed for Aero LM product lines.

- It is the current GE production standard for the LM2500 and the LM6000 product lines.

- Upgrade consists in replacement of current Mark VI Fuel Controller and Fanuc 90-70 I/O modules, chassis and software, using new hardware and software for MicroNet Plus.

- Concentrates both Mark VI and Fanuc 90-70 PLC into a single Controller and Chassis.

- System will interface with existing field devices and on-engine hardware providing core fuel control, package sequencing and protection.

- State-of-the-art digital controller programmable for a wide variety of control applications.

- The MicroNet Plus Control System provides a flexible, real-time system to control any prime mover and its associated processes. It offers high-speed closed loop control, system sequencing, auxiliary system control, surge control, monitoring/alarming and station control.

- **The "Plus" features a series of product enhancements/upgrades:**

  - Single or Redundant System Configuration (Dual power supplies, dual CPU's) to provide high availability

  - Synchronized Memory – assures that both CPUs use the same operating information in every rate group

  - One Millisecond Transfer

  - On-line Reparability

  - New Motorola 5200 Processor

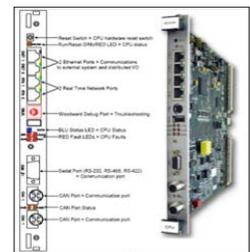 - Real Time Network

Customer Value

- Powerful CPU for demanding applications

- Flexibility to use different configurations, depending on customer's needs, and current configuration

- Real-time multitasking VxWorks operating system

- Improved control system availability and reliability

- Exceptional accuracy, fast update rates, and high channel-to-channel isolation

- SNTP compliant for time synchronization

- Eliminates transceiver module

- Increased communications capabilities (Ethernet, CAN, ports)

- Time stamping sequence of events can be accomplished from 1ms to 5ms

- Increased expansion chassis options (8 or 14 slots)

- Offers a complete suite of software products for service interface

Applicable Units:

LM6000	✔	LM2500	✔
LMS100		LM5000	
LM1600		TM2500	

Typical MicroNet Plus Architecture

MicroNet Plus CPU Module

imagination at work