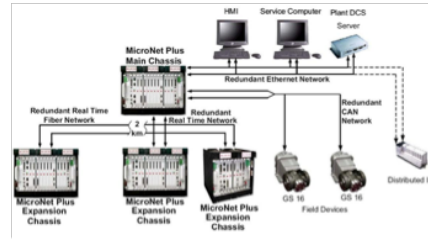# GE VERNOVA

WOODWARD MICRONET PLUS UPGRADE

Product Description

- Controls upgrade from Fanuc 90-70 to Woodward MicroNet Plus, the latest evolution of the MicroNet control system that has been developed for Aero LM product lines.
- Upgrade consists in replacement of current Fanuc 90-70 I/O modules, chassis and software, using new hardware and software for MicroNet Plus.
- Concentrates 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.
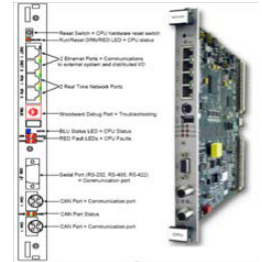
The "Plus" features a series of product enhancements/upgrades:

- 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.

Applicable Units			
LM6000	✓	LM2500	✓
LMS100		LM5000	
LM1600		TM2500	

Typical MicroNet Plus Architecture

MicroNet Plus CPU Module

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.

GE Vernova's global service network provides life cycle support for more than 3,500 aeroderivative gas turbines worldwide to help you meet your business challenges and success metrics – anywhere and anytime. Our global service network connects with you locally for rapid response to your service needs.

To learn more about this product and its applicability to your gas turbine, please contact your GE Vernova Gas Power sales representative.