EMC-102 EDECU
ENHANCED DIGITAL ELECTRONIC CONTROL UNIT

Enhanced Digitial Electronic Control Unit

Product Application(s):

Engine: General Electric T700-GE-701C/D
General Electric T700-GE-401C

Aircraft: UH-60L/M Black Hawk; AH-64D Apache Block II & III; SH-60 Navy & Coast Guard

System Description:

The EMC-102 EDECU is configured as a common supervisory engine control for both T700-GE-701C/D and T700-GE-401C applications. Slated for use by the Army on current fielded models of Black Hawk helicopters, the control is configured with modern electronics, allowing for a more reliable alternative to the present UH-60 Black Hawk control and is also compatible with the AH-64 Apache. The control unit is qualified to the latest Army requirements for superior operability in adverse environments.

EMC-102 EDECU
ENHANCED DIGITAL ELECTRONIC CONTROL UNIT
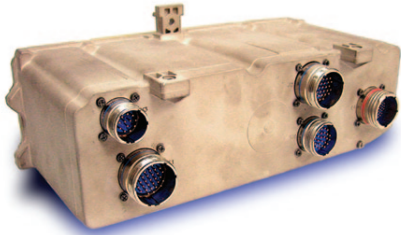
EDECU SPECIFICATIONS

Construction	Environmentally sealed PEEK housing
Ambient temperature range	– 40°C to +85°C
Environmental qualification	ADS-37-PRF, RTCA/DO-160, MIL-STD-461
Single Channel	Freescale Power PC® processor
Digital data ports	CAN/RS-232 (Maintenance data)
Overspeed protection	Dual redundant (software/hardware)
External connectors	Military style circular connectors
P/N	4155T12P09

Typical inputs/outputs per channel

- 3 Frequency inputs
- 14 Discrete inputs
- 1 RS-232 data link
- 1 CAN data link
- 1 Solenoid drivers
- 1 MIL-STD-1553 interface
- 1 Position inputs (LVDT)
- 1 Torque motor output
- 2 Analog outputs
- 1 Frequency output
- Thermocouple input
- Relay driver

Why Triumph Group?

- Over 50 years of fuel control experience
- An industry leader in fuel systems integration
- Proven performance with over 1 million accumulated flight hours
- Advanced manufacturing, production and materials processes
- Global network for service and support