



SD7000 B&R to RXi Control Upgrade

Extend the life of your drives by migrating to GE's latest control technology

GE has brought many developments to the field of SD7000 drives and controls over several years. Through our upgrade programs, we bring new and improved features that help avoiding the risk of obsolescence and deferring the move to a totally new expensive solution. Controller modernization helps extend the useful life of the drives. In addition this upgrade reduces the total installation cost and disruption to continuous production.

Upgrading the obsolete B&R controller used on legacy drives to latest RXi controller allows remote access and improved diagnostics capabilities. The RXi controller is compatible with the digital tools available for early detection of potential failures in the drive train, improving availability and reducing unplanned downtime.

PROPOSED UPGRADE SOLUTION



B&R Controller



RXi Controller

Key Benefits

- **Mitigating obsolescence** with latest hardware & software, reducing unplanned downtime caused by difficulty in securing obsolete parts.
- **OPEX reduction.** Operating expenses and increasing the drive availability with latest controllers, concurrent hardware and software.
- RXi controller is **compact, rugged and high performance computing capabilities** to run high power drives real time control system.
- **Reduced spares** through modular control hardware enabling application for a large drives
- **CAPEX savings** versus the cost of a brand new drives.

RXi CONTROL FEATURES & BENEFITS

RXi Control	Features and benefits
CPU	<ul style="list-style-type: none"> • Fanless technology allowing 60°C preventing overheat • Dual core processors with 2.5 GHz ensures speed & secures the execution timing of the controls critical algorithms. • Typical CPU loading of less than 40% helps reduction in overloading and in turn improve performance and consistent program execution
PIBe+ (Optional)	<ul style="list-style-type: none"> • The PIBe+ is a contemporary version of Power Interface board leveraging multiple technologies pivots. • Additional embedded Digital Signal Processor for advanced control algorithm high speed execution
I/O System (Optional)	<ul style="list-style-type: none"> • Modular I/O modules to fit any customer application needs • Versatility to cope with any high speed real time fieldbus
HMI (Optional)	<ul style="list-style-type: none"> • User friendly local TFT Panel.
Remote Monitoring & Diagnostic	<ul style="list-style-type: none"> • Compatibility with GE Visor for enabling remote support and providing automatic drive trip notification and trip history upload to the Visor Service Portal • Pertu history saved in control memory



SD7000 B&R to RXi Control Upgrade

Extend the life of your drives by migrating to GE's latest control technology

GE's SERVICE PROGRAMS TAILORED TO YOUR APPLICATION AND NEEDS

As an OEM, GE offers a wide range of services for your drives including:

- Replacement Parts & Repair Services
- Converter inspection and health check service
- Preventive "Performance" Maintenance (Annual/Periodical)
- Preventive "Major" Maintenance (once every 5 years)
- Multi-year Service Agreements
- Retrofits, Refurbishments and Upgrades
- Training services
- Predictive Analytics

ADVANTAGES OF RXi CONTROLLER

- Proven applications controlling Thyristor stacks
- Digital connectivity for Remote Monitoring & Diagnostics with access to suite of support tools including Visor and APM digital services
- Extensive Diagnostics through HPCi access, message log, power stack and drive I/O diagnostics, and Pertu (event & trend) records
- Modern control system with fast network access and enhanced security features
- Simplified commissioning by using HPCi/RXi architecture, a suite of system software tools and an application environment common to GE drives

TYPICAL SD7 (O&G) CONTROL UPGRADE ARCHITECTURE

