

Protecting your Automation Investment

Motion controllers, servo drives and motors— all have limited life spans. Even with ORMEC's commitment to support all our products for 20 years or more, there comes a point in time when your equipment needs to be updated or replaced.



Reasons include:

- New application functionality is required for process improvements.
- Unpredictable repairs and maintenance occur more frequently.
- Time to repair components is longer and cost to repair is higher.
- New system connectivity requirements.
- Operator interfaces become outdated.

Proactive Upgrade Plan

With a detailed plan and defined strategy, we will deliver an economical path forward.

- Hardware and firmware
 - Controllers
 - Drives
 - Motors
 - HMI
- Software upgrades
 - Application program migration and testing
 - Operator interface development

Your application experts

No one knows your application better than you do. No one knows our equipment better than we do. We will transfer application programs and functions from one ORMEC programming environment to a new platform with minimal modifications. This process is extremely efficient and saves reengineering cost and time.

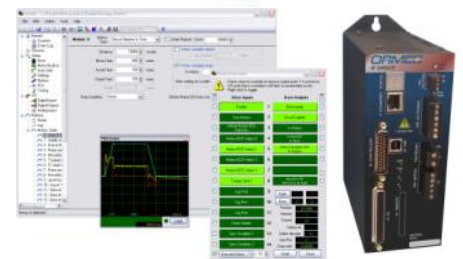
Analog system upgrades

A cost effective upgrade of analog GEN 3 or ORION DSP controllers to the ORION ServoWire platform is recommended. Minimal programming changes are needed to migrate existing application software. Obsolete drives and motors are easily replaced.

The high speed digital ServoWire drive network provides real-time servo communications. The ServoWire network provides transfer time of critical information every 125 microseconds meeting the needs of high performance servo systems.



Gen 3 and ORION controllers, drives and motors provided decades of precise motion control.



An upgrade strategy from ORMEC will include our latest motion controller technology—the ORION ServoWire, SMLC or XD Indexer and associated drives and motors.

ORMEC Compatibility Table

Current controller	New Controller	Controller hardware	Existing drive	New drive	Existing motor	New motor	Existing software	New software	Notes
GEN 3	GEN 3	no change	S, E Series	G-Series	A, B, C, E, J motors	M motors	Motion Pro (DOS) Motion Basic 2	no change	
	ORION ServoWire	new controller hardware	S, E Series	SDx Series	A, B, C, E, J motors	H, M motors	Motion Pro (DOS) Motion Basic 2	Motion Desk Motion Basic 5	Minimal configuration and application software changes
	SMLC	new controller hardware	S, E Series	SDx Series	A, B, C, E, J motors	H, M motors	Motion Pro (DOS) Motion Basic 2	CoDeSys, ServoWire Pro, IEC61131	Reconfigure and rewrite of application software
ORION DSP	ORION DSP	no change	D, F Series	G Series R Series	D motors F, J motors*	M motors *special case	Motion Desk Motion Basic 3,4	no change	
	ORION ServoWire	same controller chassis, replace DSP with ServoWire module	D, F Series	SDx Series	D motors F, J motors*	H,M motors *special case	Motion Desk Motion Basic 3,4	Motion Desk Motion Basic 5	Minimal configuration and application software changes
	SMLC	new controller hardware	D, F Series	SDx Series	D motors G, J motors*	H, M motors *special case	Motion Desk Motion Basic 3,4	CoDeSys, ServoWire Pro, IEC61131	Reconfigure and rewrite of application software
ORION ServoWire	SMLC	new controller hardware	SW Series	SDx Series	D motors G, J motors*	H, M motors *special case	Motion Desk Motion Basic 5	CoDeSys, ServoWire Pro, IEC61131	Reconfigure and rewrite of application software

This table summarizes the migration path for ORMEC controllers, drives and motors.

Step by step planning

The first step in the migration plan will be to develop a strategy based upon your current controller platform. The advantages of a high speed digital network may be a driving factor to move from analog (GEN 3 or ORION DSP) to the digital networks of ORION ServoWire or SMLC ServoWire.

Configuration and applications

When moving software platforms the configuration and application development software must be migrated. There are minor changes when moving from GEN 3 to ORION and more involved changes when moving to the SMLC. The SMLC programming environment uses standard

tools to streamline development and creates application programs that are more effective and easier to support in the field. Our application engineers are good resources for software migration.

The next step of planning is to examine the current drives, motors and associated cables to determine the compatible drives and motors required.

Typically, the compatible drives are smaller and the motors are mechanical drop-in replacements. The R-Series family of servo drives is a drop-in replacement option. Field hardware retrofits should be straightforward and cause minimal disruption to existing control cabinets and motor mountings.



Consult with the experts

Our ORMEC motion control experts along with our Solution Partners will provide you with a cost effective upgrade and implementation strategy. As your automation partner, we offer a comprehensive range of automation, integration and project management services. For more information please contact us by phone (585) 385-3520 or email us at sales@ormec.com