

Motor Driver & Interlocks Card

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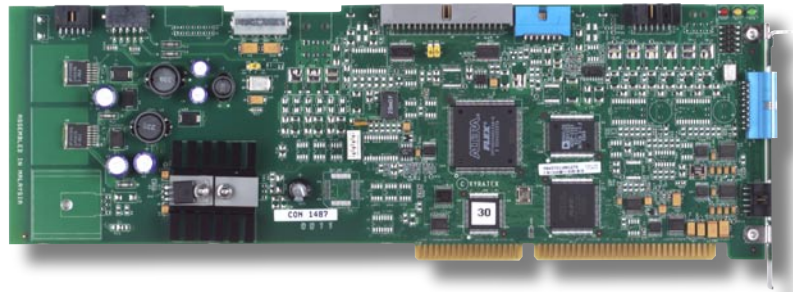


The Xyratex Motor Driver & Interlocks Card is part of a range of high-performance servo writing components. It has a flexible and open architecture, which can be configured to control a variety of I/O devices including pneumatics and additional system boards.

The integrated spindle controller with positive spin logic, is fully programmable and provides excellent speed stability up to 20,000 rpm. These functions are controlled by an on-board DSP, which runs its own multi-tasking schedule. This allows all processes to run simultaneously achieving higher performance.

All interlock functions and voltage measurements are continuously monitored by the system to ensure correct synchronization and protect servo writing performance in the event of a fault condition.

Xyratex offers a range of high performance servo-technology building blocks, which can be used for implementing complete solutions or integrating directly with third party and customer-designed systems. The Motor Driver & Interlocks Card is part of this range, which includes servo writing software; pattern generator card and companion channel card; integrated card cage with power supply and single board computer; and complete clamping, positioning and isolation system.

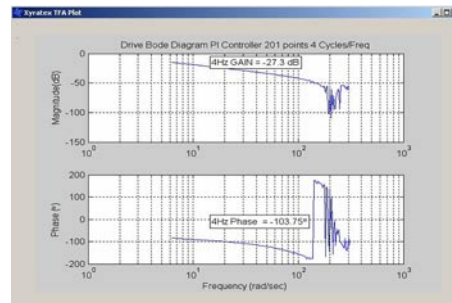


Features

- Precision Trapezoidal Spindle Motor Controller with Positive Spin Logic
- Customizable Options including Sine Wave Drive, Interfaces and Form Factor
- Programmable Electrical and Pneumatic Functions Interface
- Programmable Sequencing and Interlocks Capability
- Continuous Monitoring of Power Supply Voltage
- Custom Power Supply

Spindle Controller Performance

Parameter	Range	Resolution
Speed Range:	3000 - 15000 rpm	<0.25%
Rotational Speed Accuracy:	<0.05%	
Motor Phases:	3	
Poles:	Programmable	
Supply Voltage:	12V - 15V	±5%
Compatible Form Factor/Disks:	0.85" - 3.5"	
Fault Tolerant:	<ul style="list-style-type: none"> • Supply Voltage • Output Short Circuits 	Yes Yes
Internal Frequency Reference:	4MHz	
External Frequency Reference:	2 - 16 MHz	0.166/0.25MHz
Velocity & Phase Control Loops:	Yes	
Linear:	Yes	
Active Dynamic Braking:	Yes	



Interactive GUI showing Motor TFA trace

www.xyratex.com

USA Outside CA: Ray Pecharich
 E-mail: ray_pecharich@us.xyratex.com
 Tel: +1 303 485 5131
 Fax: +1 303 774 8295

USA CA: Tom Holtzinger
 E-mail: tom_holtzinger@us.xyratex.com
 Tel: +1 408 828 6936
 Fax: +1 408 879 0492

SE Asia Mike Wong
 E-mail: mike_wong@singapore.xyratex.com
 Tel: +65 6483 1070
 Fax: +65 6483 0170

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