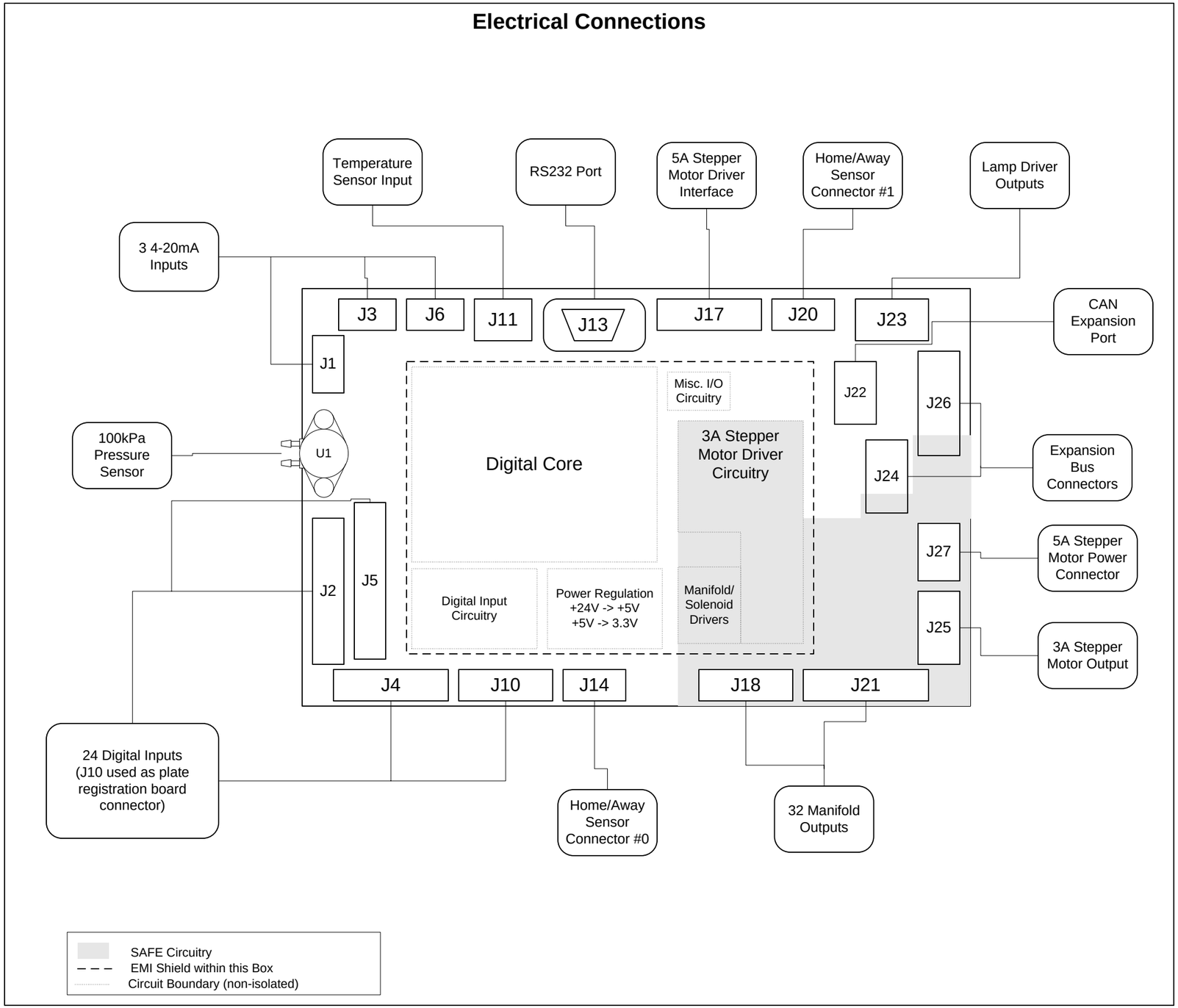
GENINE Board Block Diagram



Summary of Functionality

	Qty	
Sensor Inputs		
Digital Inputs	24	
4-20mA Inputs	3	
Pressure Sensor (0-100kPa)	1	
Temperature Sensor Input	1	
Home/Away Sensor Inputs	2	
Control Outputs		
250mA Manifold Outputs	32	
Lamp Drivers	2	
Stepper Motor Controllers *	2	
Communications		
Expansion Bus Connectors	2	
CAN Expansion Port	1	
RS232 Port	1	
Notes		
* - 1 on-board 3A Stepper motor driver,		
1 interface to external 5A Stepper motor driver board		

Connector Summary

Designator	Board Text	Type	Description
J1	ANALOG1	6pin MTA	4-20mA Connector #1 OPTOREFL1
J2	DIGITAL_IN3	2X15 Shrouded	Digital In Connector #3 SENS[9..15]
J3	ANALOG0	6pin MTA	4-20mA Connector #0 OPTOREFL0
J4	DIGITAL_IN2	2X10 Shrouded	Digital In Connector #2 SENS[4..8]
J5	DITIGAL_IN4	2X17 Shrouded	Digital In Connector #4 SENS[16..23]
J6	ANALOG2	6pin MTA	4-20mA Connector #2 OPTOREFL2
J7	BDM	2X5 Shrouded	BDM Port (digital core)
J8	-	1X2 Jumper	IRQ/7 Jumper (digital core)
J9	-	1X2 Jumper	IRQ/6 Jumper (digital core)
J10	DIGITAL_IN1	2X7 Shrouded	Plate Registration Board Connector PREG[0..3]. On Rev. B, Pin 14 should be Keyed
J11	TEMP	2X3 MinimateNLock	External Temperature Sensor Connector
J12	BMM	2X50 SMT	BMM Connector (digital core)
J13	RS232 PORT	DB9 Female	RS232 Port
J14	HA-0	2X6 Shrouded	Home/Away Connector #0. On Rev. B, Pin 9 should be Keyed
J15	BOOT	1X2 Jumper	Boot Jumper (digital core)
J16	BREG	2X4 Jumper	Version Register Jumpers
J17	STPR-CNTL	2X10 Shrouded	5A Stepper Motor Interface
J18	SOL-DRV0	2X8 Shrouded	Manifold Output Connector #0 ACT+[0..7]
J19	JTAG	1X5 Header	CPLD JTAG Connector
J20	HA-1	2X6 Shrouded	Home/Away Connector #1. On Rev. B, Pin 9 should be Keyed
J21	SOL-DRV1	2X13 Shrouded	Manifold Output Connector #1 ACT+[8..31]
J22	CAN-EXP	2X3 Shrouded	CAN Expansion Port
J23	LAMP-OUT	2X4 Molex Minifit Jr	Lamp Driver Connector
J24	SCON2	2X5 Molex Minifit Jr	Expansion Bus Connector #2
J25	STPR-DRIVE	2X4 MinimateNLock	3A Stepper Motor Cable
J26	SCON1	2X8 Molex Minifit Jr	Expansion Bus Connector #1
J27	STPR-PWR	2X3 Molex Minifit Jr	5A Stepper Motor Power Connector

A No changes on this drawing except on the title block

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Drawn by: J Malm
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