

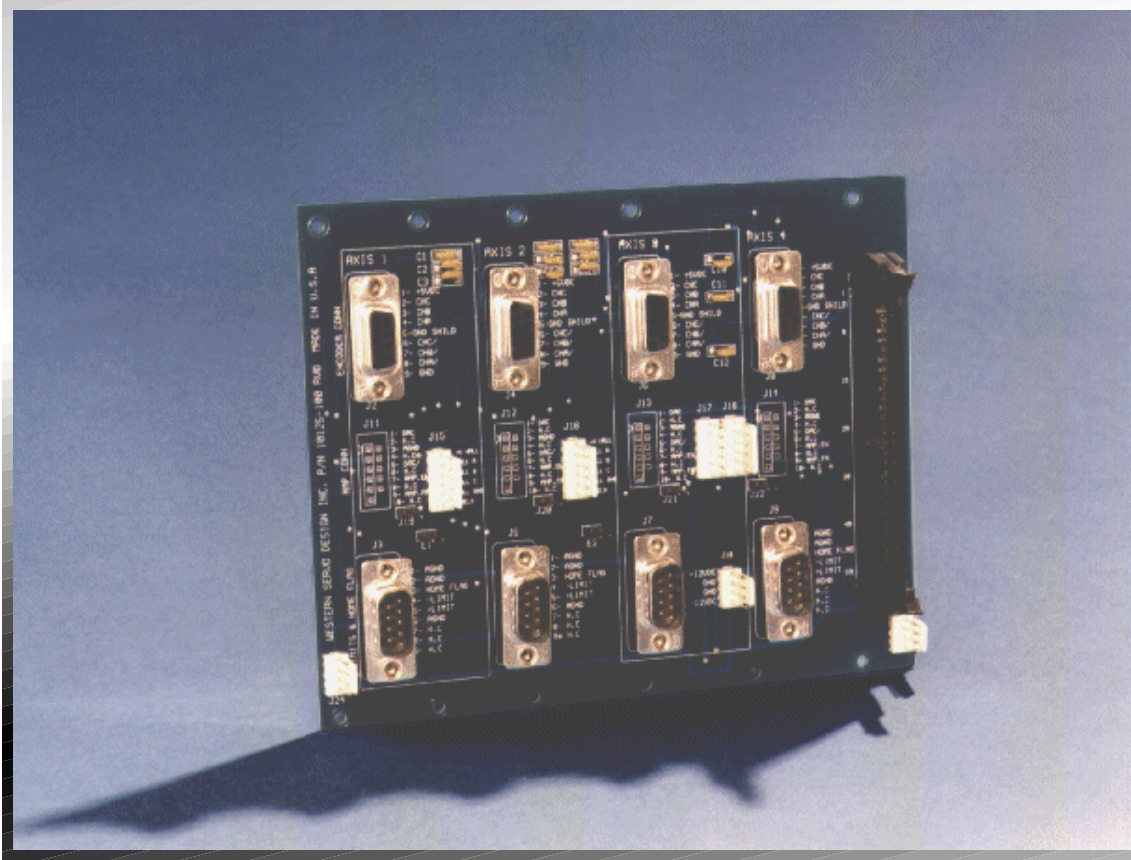
Product:
Interface Card

Used For:
Interface to Motion Controller

Mounting:
Stand Alone or Rear of Rack

Power:
N/A

#of Axes:
Up to Four



ACC-3A

PMAC / PMC-S4 Interface Board

The ACC-3A is an interface board that is used to provide connections between a PMAC or PMC-S4 motion controller and up to four servomotor axes. The ACC-3A is normally mounted on the rear of a 3U or 6U Eurocard ("VME Style") rack chassis, although it can also be mounted in a variety of other fashions due to its compact size. The signals to and from the motion controller are divided up into groups for each axis and brought out to connectors on the board. Each of the four available axes has its own connectors for a Quadrature Style Encoder, Hall Effect sensors, an Amplifier, and a set of Limit and Home Switch inputs. The Amplifier Enable signal for each axis is also brought out to a connector to allow using the signal with external equipment. Jumpers allow configuring the motion controller to perform external sinusoidal commutation for brushless motors. In this mode, two outputs of the motion controller are required to drive each motor.

- Mounts stand-alone or to rear of 3U or 6U Eurocard Chassis
- Single 60-Pin Ribbon Cable connection to Motion Controller
- Connections for each axis brought out to separate groups.
- Jumper Configurable to allow Hall Effect or External Sinusoidal Commutation
- Greatly simplifies wiring for Multi-Axis Rack Mount Systems
- Amplifier Enable Signals from Motion Controller brought out for use with external equipment
- Built in connectors for hooking up analog power supplies
- Built in noise reduction capacitors on encoder signal lines.
- Compact Size
- Advanced Design, High Quality, and High Reliability at a Lower Cost

CONNECTORS

FUNCTION	DESIGNATOR	CONNECTOR TYPE
Connection to Motion Controller	J1	60 pin male box header
Encoders	J2, J4, J6, J8	9 pin DB female
Limit & Home Flags	J3, J5, J7, J9	9 pin DB male
Hall Effect Sensors	J15, J16, J17, J18	6 pin Molex male w/ .1" spacing
Amplifier Connectors	J11, J12, J13, J14	10 pin male box header
Analog Power	J10, J23, J24	4 pin Molex w/ .1" spacing
Amp Enable Signal Output	J19, J20, J21, J22	2 pin header w/ .1" spacing

PINOUTS

J1: MOTION CONTROL CONNECTOR

See ACC-3 User's Manual for pinout of 60 pin connector

J2, J4, J6, J8: ENCODERS

Pin	Function
1	+5VDC
2	Channel C
3	Channel B
4	Channel A
5	Shield
6	Channel C/
7	Channel B/
8	Channel A/
9	GND

J3, J5, J7, J9: LIMIT & HOME FLAGS

Pin	Function
1	Analog Ground
2	Analog Ground
3	Home Flag
4	- Limit
5	+ Limit
6	Analog Ground
7	No Connection
8	+12VDC
9	No Connection

J15, J16, J17, J18: HALL SENSORS

Pin	Function
1	Hall +V
2	Hall A
3	Hall B
4	Hall C
5	Hall Ground
6	Shield

J11, J12, J13, J14: AMPLIFIERS *

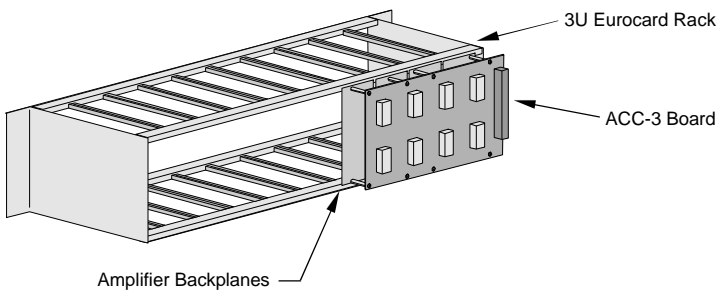
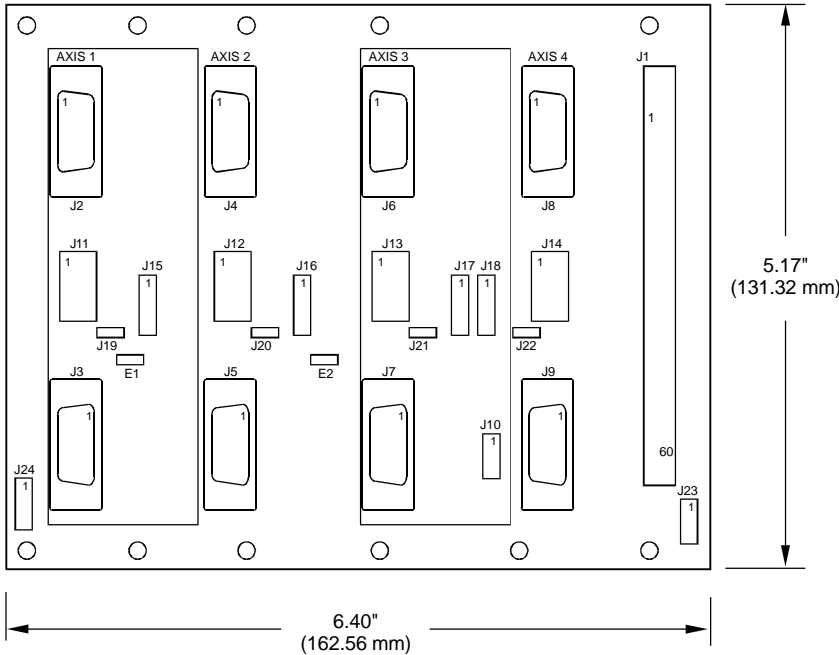
Pin	Function (Brush Brushless**)
1	DAC Out
2	N.C. Hall +V
3	Analog Ground
4	N.C. Hall A
5	DAC/ Out
6	N.C. Hall B
7	Amp Enable
8	N.C. Hall C
9	Amp Fault (from Amp)
10	N.C. Hall Ground

J10, J23, J24: ANALOG POWER

Pin	Function
1	+12 to 15VDC
2	Ground
3	Ground
4	-12 to 15VDC

J19, J20, J21, J22: AMP ENABLE OUT

Pin	Function
1	Amp Enable from Controller



* As viewed from top (silkscreen) side.
 ** See User's Manual for jumper settings and Sinusoidal connections.

Ordering Information:

Product	Order Number
ACC-V3A Interface Board <i>This accessory is used with the Rack Mount Format Amplifiers (PDU, PAU, LDU, BPU and BLU series) from Western Servo.</i>	WS-011-0009

Represented By:

