

MSB520 Data Sheet



The MSB520 is the motherboard, designed to facilitate connections to either a MSE421 / PM421 or a Mini Maestro (DCD60) servo motor amplifier.

This board is 3U high and 7E wide, and is to be fitted in the backplane area of a 3U rack. It has a 64 way DIN41612 connector for connection to a amplifier allowing it to be a plug in unit. On the other side there are plug-in screw terminals for all control connections and high current screw terminals for the power and motor connections.

This unit is pin compatible with a 3MB motherboard.

Control connections

Terminal	Ident	Description	Amplifier pin
1	I Motor	Motor Current monitor output	11 a&c
2	Prtn Act	Protections Active output	2 a&c
3	I reqd	Required Current (TPRC) input or output	3 a&c
4	Sig 0V	Signal 0V	1 a&c
5	-10V ref	-10V reference voltage output	4 a&c
6	+10V ref	+10V reference voltage output	5 a&c
7	Enable	Enable input	7 a&c
8	Commd+	Command (required speed) signal non inverting input	6 a&c
9	Sig 0V	Signal 0V	1 a&c
10	Commd-	Command (required speed) signal inverting input	10 a&c
11	Tacho-	Tacho feedback inverting input (0V)	8 a&c
12	Tacho+	Tacho feedback non inverting input	9 a&c
18	Limit-	Negative limit input (MSE421/PM421 only)	12 c
19	Limit+	Positive limit input (MSE421/PM421 only)	12 a

Power supply connections

Terminal	Ident	Description	Amplifier pin
13	+V	Power supply + (+VMM or +DC)	14-17 a&c
14	0V	Power supply 0V (0VMM or -DC)	19-22 a&c

Motor connections

Terminal	Ident	Description	Amplifier pin
15	M1	Motor Output (Motor+)	24-27 a&c
16		not connected	
17	M2	Motor Output (Motor-)	29-32 a&c

There is a fuseholder to accept 1¼" fuses, between terminal 13 (+V supply) and the amplifier. The quick blow HRC fuse should be selected from the table below.

Amplifier	Fuse rating
MSE421	5A
DCD60x3/6	12.5A
DCD60x7/14	12.5A
DCD60x10/20	16A
DCD60x14/28	16A

