

Application Note #2507

ICS-48044-M

Part Description

The ICS-48044-M is a DB44-M to Screw terminal breakout board designed to be used with 'IO' DB44 connector on the Galil DMC-4000 series motion controller. The component is show in figure 1 below:

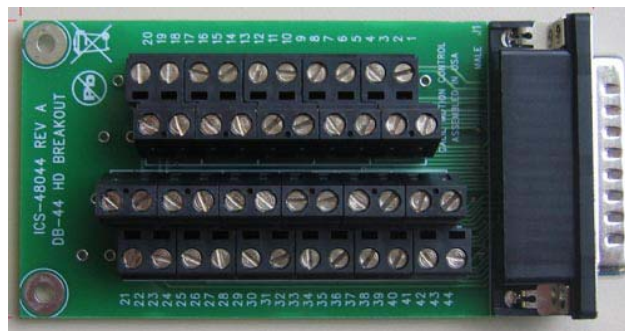


Figure 1: ICS-48044-M

Figure 2 shows installation (typical):

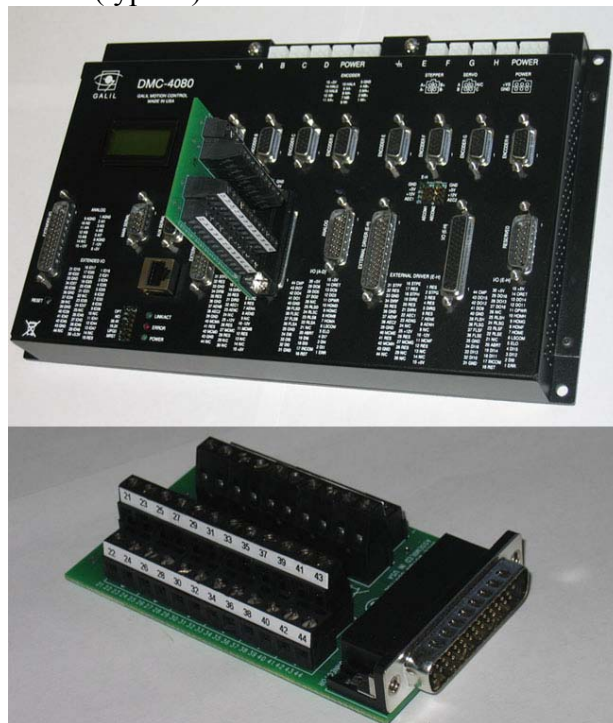


Figure 2: ICS installed on DMC-4000

Pinout

The pinout is based on the pinout as described on the silkscreen of the DMC-4000 and in the DMC-4000 User Manual:

ICM-42000 I/O (A-D) 44 pin D-Sub Connector

Pin	Label	Description	Pin	Label	Description	Pin	Label	Description
1	ERR	Error Output	16	RST	Reset Input	31	GND	Digital Ground
2	DI1	Digital Input 1 / A latch	17	INCOM	Input Common	32	DI2	Digital Input 2 / B latch
3	DI4	Digital Input 4 / D latch	18	DI3	Digital Input 3 / C latch	33	DI5	Digital Input 5
4	DI7	Digital Input 7	19	DI6	Digital Input 6	34	DI8	Digital Input 8
5	ELO	Electronic Lock Out	20	ABRT	Abort Input	35	GND	Digital Ground
6	LSCOM	Limit Switch Common	21	N/C	No Connect	36	FLSA	Forward Limit Switch A
7	HOMA	Home Switch A	22	RLSA	Reverse Limit Switch A	37	FLSB	Forward Limit Switch B
8	HOMB	Home Switch B	23	RLSB	Reverse Limit Switch B	38	FLSC	Forward Limit Switch C
9	HOMC	Home Switch C	24	RLSC	Reverse Limit Switch C	39	FLSD	Forward Limit Switch D
10	HOMD	Home Switch D	25	RLSD	Reverse Limit Switch D	40	GND	Digital Ground
11	OPWR	Output Power	26	N/C	No Connect	41	DO1	Digital Output 1
12	DO3	Digital Output 3	27	DO2	Digital Output 2	42	DO4	Digital Output 4
13	DO6	Digital Output 6	28	DO5	Digital Output 5	43	DO7	Digital Output 7
14	ORET	Output Return	29	DO8	Digital Output 8	44	CMP	Output Compare
15	+5V	+5V from Controller	30	+5V	+5V			

ICM-42000 DMC-40x0 I/O (E-H) 44 pin D-Sub Connector

Pin	Label	Description	Pin	Label	Description	Pin	Label	Description
1	ERR	Error Output	16	RST	Reset Input	31	GND	Digital Ground
2	DI9	Digital Input 9 / E latch	17	INCOM	Input Common	32	DI10	Digital Input 10 / F latch
3	DI12	Digital Input 12 / H latch	18	DI11	Digital Input 11 / G latch	33	DI13	Digital Input 13
4	DI15	Digital Input 15	19	DI14	Digital Input 14	34	DI16	Digital Input 16
5	ELO	Electronic Lock Out	20	ABRT	Abort Input	35	GND	Digital Ground
6	LSCOM	Limit Switch Common	21	N/C	No Connect	36	FLSE	Forward Limit Switch E
7	HOME	Home Switch E	22	RLSE	Reverse Limit Switch E	37	FLSF	Forward Limit Switch F
8	HOMF	Home Switch F	23	RLSF	Reverse Limit Switch F	38	FLSG	Forward Limit Switch G
9	HOMG	Home Switch G	24	RLSG	Reverse Limit Switch G	39	FLSH	Forward Limit Switch H
10	HOMH	Home Switch H	25	RLSH	Reverse Limit Switch H	40	GND	Digital Ground
11	OPWR	Output Power	26	N/C	No Connect	41	DO9	Digital Output 9
12	DO11	Digital Output 11	27	DO10	Digital Output 10	42	DO12	Digital Output 12
13	DO14	Digital Output 14	28	DO13	Digital Output 13	43	DO15	Digital Output 15
14	ORET	Output Return	29	DO16	Digital Output 16	44	CMP	Output Compare
15	+5V	+5V from Controller	30	+5V	+5V			

Ratings

Voltage and current ratings are defined by the DMC-4000. Only DC voltages from 5V-24V will be present on this component. Review the Appendix in the DMC-4000 User Manual for details on all available I/O.

RoHS

Galil Motion Control, Inc. certifies that the ICS-48044-M meets the 2002/95/EC (RoHS) requirements.

Level 1: RoHS Compliance Certification

Galil Motion Control, Inc. states the above products and any of its homogenous materials, do not contain each of the 6 substances above the RoHS thresholds.

Lead	<1000 PPM
Mercury	<1000 PPM
Hexavalent Chromium	<1000 PPM
PBB	<1000 PPM
PBDE	<1000 PPM
Cadmium	< 100 PPM

Dimensions

