



### Features

- Max. 20Mbps transfer rate
- Ultra compact, a 2-axis integrated controller
- Max. 6.5MHz pulse output rate
- 28-bit counter for incremental encoder
- Programmable acceleration and deceleration time
- T-curve and S-curve velocity profiles support
- Easy installation for servo or stepping motor driver
- Dimensions: L-53 x W-21 x H-80mm

01 Master Card

02 Digital Slave

03 Analog Slave

04 Motion Slave

05 Microstep Driver

### Specifications

Communication controller	Motionnet® slave motion controller ASIC
Serial interface	Half duplex RS-485 with transformer isolation
Cable type	CAT5 UTP/STP Ethernet cable
Surge protection	10KV
Transmission speed	2.5Mbps, 5Mbps, 10Mbps and 20Mbps
Programmable pulse output mode	OUT/DIR, CW/CCW, A/B phase
Programmable pulse command speed	Max. 6.5Mpps
Home return mode	13 types
Velocity profile	T-curve and S-curve
Counter for encoder feedback signals	28 bits
Position compare output	CMP
Incremental encoder input	±EA x 2, ±EB x 2
Encoder index signal input	±EZ x 2
Machine interface	PEL x 2, MEL x 2, ORG x 2, SLD x 2, EMG x 2
Servo driver interface	ALM x 2, RDY x 2, SVON x 2, INP x 2 and ERC x 2
LED indicator	PWR x 2, RUN x 2, ERR x 2, PEL x 2, MEL x 2, ORG x 2, SLD x 2, EMG x 2
Power input	24VDC ± 10%
Power consumption	5W typical
Working temperature	0 to 60°C

### Ordering Information

107-M2A2-GEN	2-axis motion controller
SCB-1BB-06A/10A/20A/30A/50A/A0A	CAT5 LAN cable, 0.6M/1M/2M/3M/5M/10M
SCB-193-10A/20A/30A-DA2/GEN/MJ3/SAN/Y5/PA5	DB26-SCSI 50 pin cable, 1M/2M/3M

### I/O connector

#### DB26

1	SVON	10	RST	19	EMG
2	INP	11	ALM	20	EGND
3	ERC	12	E24V	21	EGND
4	RDY	13	EGND	22	EGND
5	OUT-	14	N.C.	23	DIR-
6	OUT+	15	EGND	24	DIR+
7	EA+	16	EB-	25	EZ-
8	EA-	17	EB+	26	EZ+
9	N.C.	18	EGND		