

01 Master Card

02 Digital Slave

03 Analog Slave

04 Motion Slave

05 Microstep Driver



### Features

- Max. 20Mbps transfer rate
- Ultra compact, a driver integrated controller
- 2-phase bi-polar current driving system
- Current: Peak 8.24A / RMS 5.83A
- 1/256 micro step
- Encoder feedback
- Easy installation for servo or stepping motor driver
- Dimensions: L-53 x W-21 x H-80mm

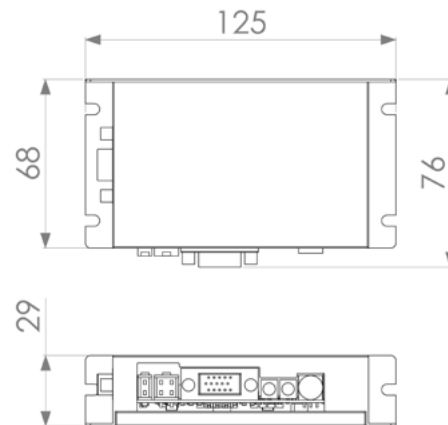
### Specifications

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
Multi axes drive	Max. 32 sets/ring
Incremental encoder input	±EA, ±EB
Encoder index signal input	±EZ
I/O input signal	PEL, MEL, ORG, SD and EMG
I/O output signal	CMP
Position control	Incremental mode / Absolute mode Data range: 28 bits
Homing mode	ORG, EZ, SD, Limit & totally 13 types
Software	Motion library (DLL) for Windows XP/XPe/7
Input voltage	18VDC to 36VDC
Drive model	2-phase, bi-polar current driving system
Current consumption	1.5W typical (60mA/24VDC) no load
Ambient temperature	In use: 0~50°C In storage: -20~70°C
Humidity	In use: 35~85% (Non-condensing) In storage: 10~90% (Non-condensing)
Vib. resist	0.5G
Current setting	Selected using a variable resistor (0.2 to 2A/phase)
Micro step	1, 1/2, 1/4, 1/16, 1/32, 1/64, 1/128, 1/256 selected by rotary switch 0~8
LED display	OT, OTPW, S2G, EL+, EL-, ORG, EMG, SD, PWR
Protection functions	Connect to current sense resistor for bridge A.B = 2A

### Ordering Information

STP-M112A	Motionnet® 2-phase microstep driver w. encoder
STP-M112B	Motionnet® 2-phase microstep driver wo. encoder
SCB-1BB-06A/10A /20A/30A/50A/A0A	CAT5 LAN cable, 0.6M/1M/2M/3M/5M/10M

### Dimensions and Drawing



Unit:mm