

Miniature Smart Stepping Motor Driver with serial communication link



Features

■ Small size

3cm x 6 cm x 1.5 cm (CB/CF Type)

■ Micro-stepping

Programmable 1/16 - 1/32 micro step interpolation
(1/4 – 1/8 version also available on request)

■ Less no. wires

Built-in 115200 baud rate serial Interface (RS485)
to communicate up to 32 axes.

One-wire serial interface for status monitoring

■ Cost saving

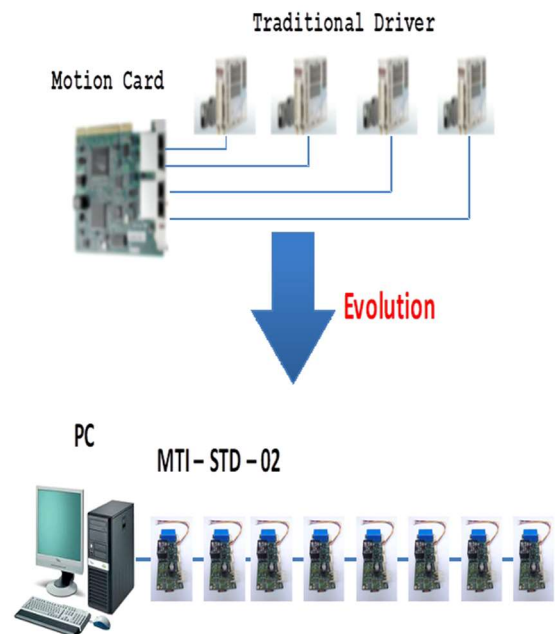
Motion profile generator with smart homing is implemented.
Motion card is not necessary.

■ Flexible I/O's

Multiple function digital inputs (CW/CCW, position indexer,
Positive/Negative limit sensor inputs JOG...)

■ Easy wiring

Two versions of extension boards, isolation (ID)
and non-isolation (ND) are available.

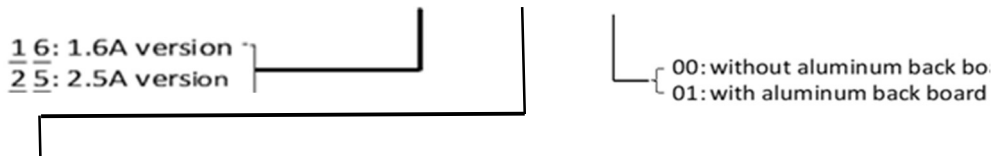


Electrical specifications

Item	Value		Unit
Main supply voltage	9~24		V
Motor type	2 phase bipolar		
Maximal output current	MTI-STD-02-16-XX-XX	1.6	A/ phase
	MTI-STD-02-25-XX-XX	2.5	
Continuous output current	MTI-STD-02-16-XX-XX	1.1	A/ phase
	MTI-STD-02-25-XX-XX	1.8	
Operating temperature	0~50		°C
Humidity range	20~90		%
Max. VCE of digital output	24		V
Max. sink current of digital output	20		mA
Pull-high voltage of non-isolated digital input	5		V
Pull high resistor of non-isolated digital input	3.3k for DI		ohm
	10k for limit sensor		
Voltage of isolated digital input (ID type only)	5 (differential)		V
Maximal Pulse rate			kHz
	■ Internal motion profile generator	64	
	■ External CW/CCW pulse input	100	

Order Information

MTI – STD – 02 – XX – YY – ZZ



Type	I/O connector	PWR connector	Motor connector	Isolation
CB	1.25 mm pitch	2.5 mm pitch	1.25 mm pitch	No
CF			1mm FPC	No
ND	3.5 mm DIN	3.5 mm DIN	3.5 mm DIN	No
ID			3.5 mm DIN	Yes