



Taiwan Pulse Motion
Inspire New Automation

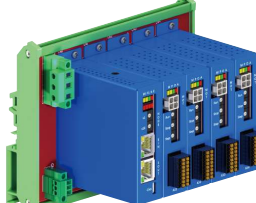
EtherCAT 2-Phase Microstepping Drives

EtherCAT 5-Phase Microstepping Drives

EtherCAT® 

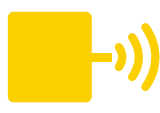
<https://www.tpm-pac.com/>

● EtherCAT 2-Phase Microstepping Drives

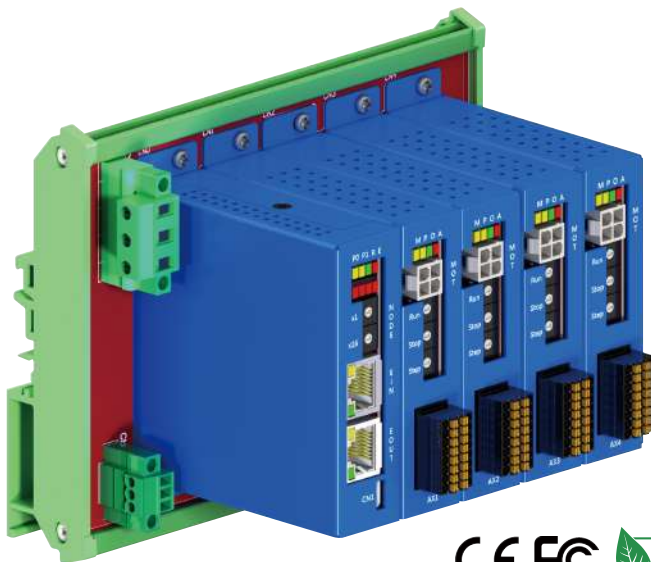
			
1-Axis	2-Axis	3-Axis	4-Axis
STP-K111A(2.8A) STP-K112A(4.2A)	STP-K221A(1.8A/Axis)	STP-K2231A(1.5A/Axis)	STP-K2241A(1.5A/Axis)

● Features

- EtherCAT 2-Phase Bipolar Constant-current Drive
- 4-Axis micro-Stepper Driver; 200 ~ 25,600 PPR
- Driving Current Max 1.5A per Axis
- CiA402 device profile: CSP, PP, Home
- DIP switch for address setting
- Support Encoder feedback: EA, EB and EZ
- DIN rail mounting

Encoder	Cost-Effective	Flexibility	Current-Mode Control
			

● STP-K2241A



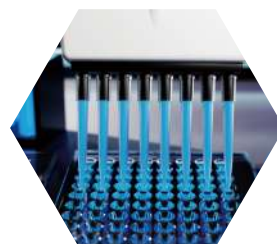
● Specifications

EtherCAT	
Data transfer medium	Ethernet 100BASE-TX, CAT5 Shielded Ethernet cable
Communication type	DC
Distributed Clock	0.5 / 1 / 2 / 4 ms
ID switch	8 bits
CiA402 device profile	CSP,PP,Home
Drive	
Axis Num	4
Drive model	2-phase Bi-polar Constant-current
Motor Type	2-phase 1.8° and 0.9° step angle
Resolution	200 ~ 25,600 pulse/revolution
Current setting	0.5 ~ 1.5A
MI/O input signal	PEL, MEL, ORG and EMG
User I/O signal	1 x DI, 1 x DO per Axis
Position control	Incremental / Absolute mode, Data range 32bits
Incremental encoder input	EA, EB and EZ
LED indicator	PWR, RUN, ERR, PEL, MEL, ORG, ALM and EMG
Power Input	DC 24V
Current consumption	4W typical (150mA/24VDC) no load
Ambient temperature	In use: 0~40°C, In storage: -20~70°C

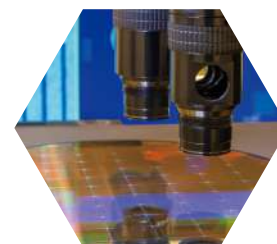
● Applications



Robotic arm

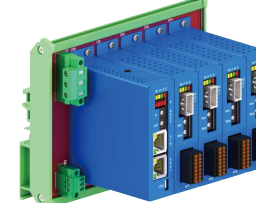


Medical testing equipment



Automated Optical Inspection

● EtherCAT 5-Phase Microstepping Drives

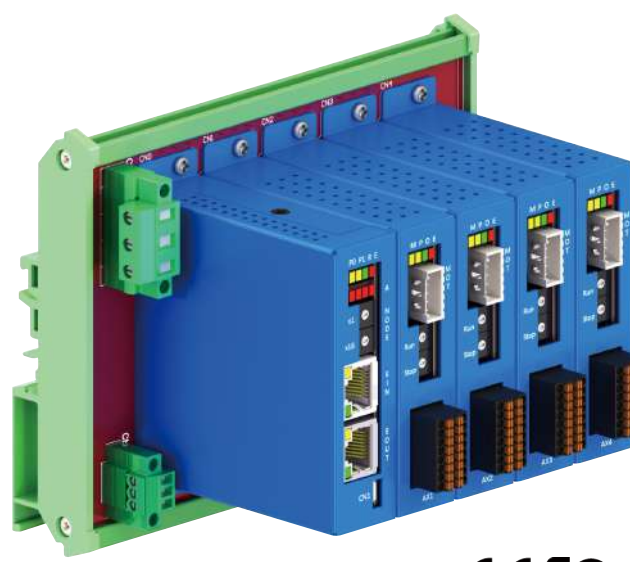
			
1-Axis	2-Axis	3-Axis	4-Axis
STP-K510A(0.75A) STP-K511A(1.4A) STP-K512A(2.8A)	STP-K521(1.4A/Axis)	STP-K5231A(1.4A/Axis)	STP-K5241A(1.4A/Axis)

● Features

- EtherCAT 5-Phase Constant-current Drive
- 4-Axis micro-Stepper Driver; 500 ~ 400,000 PPR
- Driving Current Max 1.4A per Axis
- CiA402 device profile: CSP, PP, Home
- DIP switch for address setting
- Support Encoder feedback: EA, EB and EZ
- Low Vibration and Noise
- DIN rail mounting

Accurate	Smooth	Low heating	Low jitter
			

● STP-K5241A



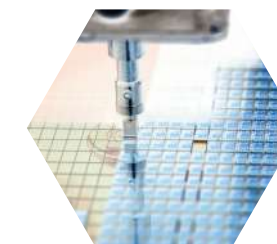
● Specifications

EtherCAT	
Data transfer medium	Ethernet 100BASE-TX, CAT5 Shielded Ethernet cable
Communication type	DC
Distributed Clock	0.5 / 1 / 2 / 4 ms
ID switch	8 bits
CiA402 device profile	CSP,PP,Home
Drive	
Axis Num	4
Drive model	5-phase Bi-polar Constant-current
Motor Type	5-phase 0.36° and 0.72° step angle
Resolution	500 ~ 40,000 pulse/revolution
Current setting	0.5 ~ 1.4A
MI/O input signal	PEL, MEL, ORG and EMG
User I/O signal	1 x DI, 1 x DO per Axis
Position control	Incremental / Absolute mode, Data range 32bits
Incremental encoder input	EA, EB and EZ
LED indicator	PWR, RUN, ERR, PEL, MEL, ORG, ALM and EMG
Power Input	DC 24V
Current consumption	4W typical (150mA/24VDC) no load
Ambient temperature	In use: 0~40°C, In storage: -20~70°C

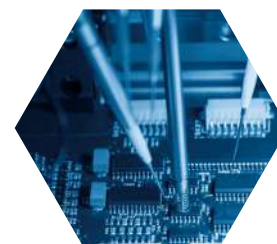
● Applications



Active Alignment



Wafer Die Sorter



Wire Probing