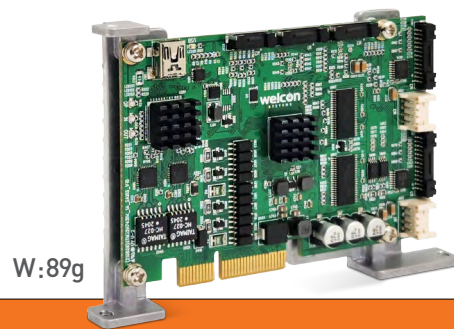


MULTI-AXIS DRIVE [Slot Type]

WE2S-D024 / 01-FS0057-E, -C (Size : 116.5×77.5×13.5mm)

Ratings	P5	01
Continuous Output Current A	0.5	1
Peak Output Current A	1.5	3

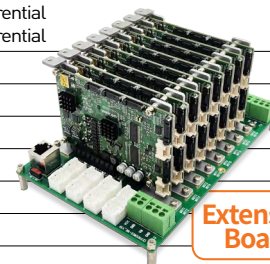


Basic Specifications		
Feature	Specification	
Number of Control Axes	2	
Motors	DC / BLDC / PMSM / VCM	Rotary servo motors, Linear servo motors
Current (Torque) Control	Control Periodic	20KHz
	Control Loop	PI + Feed-forward
Velocity & Position Control	Control Periodic	4KHz
	Control Loop	Cascade P/PI + Feed-forward
	Filters	First order low pass filter, Four notch filters, First order adaptive windowing filters
Reference Command	Current / Velocity / Position	USB, CAN(CANopen), EtherCAT(CoE, FoE), RS-485
Auto Tuning	Method	Automatic self-configuration and optimization of motor phasing, wires, current loop, velocity control loop
GUI	User Interface	WELSS(WelconServoStudio), Setting, Drive, Motor, Feedback, I/O, Motion
Input Voltage	Extension Board[V3] • Motor Voltage : 12~24VDC(H/W Limit 10~30V) • Control Voltage : 24VDC Extension Board[V0] • 12~24VDC(H/W Limit 10~30V)	
Protective Functions	Under- and over-voltage, Over-current, Over-load (with I ² T), Drive over-temperature	
Environment	• Ambient temperature : Operation 0~50°C, Storage 0~70°C • Humidity : 10~90% • Vibration : 1.0g	
Compliance Standard	CE, KC	

Communication*		
Feature	Specification	
USB	• Baud rate : up to 3Mbps • Maximum cable length : 3m	
CAN*	Bit rate : 125kbps ~ 1Mbps	
EtherCAT*	100Mbps, Communication cycle time : up to 250μs	
RS-485*	Baud rate : 9200bps~3Mbps	

I/O		
Feature	Specification	
Analog Input	Quantity	1x2
	Voltage Range	Analog ±10 VDC differential
	Input Resolution	14 bit
Digital Inputs	Quantity	6x2
	Signal	Configurable. Opto-isolated(4x2) + LVTTTL(2x2)
	Voltage	24V
Digital Outputs	Quantity	2x2
	Signal	Configurable. Opto-isolated.
	Voltage	24V
	Max. Output Current	40mA
Brake	Use one of digital outputs (40mA)	

Motor Feedback*		
Feature	Specification	
General	Supply Voltage	5VDC
Incremental Encoder	Signal	CH1 : A-quadr-B with or without index, RS422, Differential CH2 : A-quadr-B with or without index, RS422, Differential
	A-quadr-B Max Input Frequency	10MHz (before quadrature)
Digital Hall Sensor	Signal	Single-ended
	Type	Separated hall sensor
Analog Hall Sensor*	Signal	0~5V, Single-ended
	Sampling Frequency	20KHz
Sin/Cos Encoder*	Signal	-0.7~+0.7V at 2.5V, Differential
	Sampling Frequency	20KHz



16 Axes Extension Board (WEX-16E-V3)	• Board size : 185mm × 125mm	• Number of slots / axis : 8 / 16	• Number of DIO connectors : 16
12 Axes Extension Board (WEX-12E-V3)	• Board size : 155mm × 125mm	• Number of slots / axis : 6 / 12	• Number of DIO connectors : 12
8 Axes Extension Board (WEX-08E-V3)	• Board size : 105mm × 125mm	• Number of slots / axis : 4 / 8	• Number of DIO connectors : 8

*Optional