Advanced Photonics Control Solutions

XPS DRIVER CARDS

THE CORPST

The XPS is an extremely high-performance, user-friendly, integrated motion controller/driver offering convenient, high-speed communication through 10/100 Base-T Ethernet. With outstanding motion profiling, complex trajectory control, positioning accuracy and powerful programming functionality, the XPS is capable of addressing the most demanding motion applications for up to 8-axes of motorized positioners, while supporting 30 users working simultaneously.

The XPS controller is capable of driving a variety of motors using driver cards that slide into the back mainframe of the XPS. These factory-tested modules are powered by an internal 500 W or 750 W power supply that is independent of the controller power supply. For high-performance, back-drivable motors, a high-power, external driver is available.



XPS-EDBL's continuous power: 600 W without fans, 1000 W with fans.

ORDERING INFORMATION

Model	Description					
XPS-DRV11	Universal digital driver card for stepper, DC and direct motors					
XPS-DRV00P	Pass-through driver module with pulse and direction capability					
XPS-DRV01	PWM drive module for DC brush and stepper motors, 3 A/43 V max.					
XPS-DRV02	PWM drive module for brushless motors, 5 A/44 VPP max.					
XPS-DRV02L	Low Noise drive module for brushless motors, 2 A/44 VPP max.					
XPS-DRV02P	Low Noise drive module for brushless motors, 7 A/44 VPP max.					
XPS-DRV03	High performance PWM drive module for DC motors, 5 A/43 V max.					
XPS-DRVP1	NanoPositioning drive module for piezo-stack based products					
XPS-EDBL (1)	High-power, 3-phase, sinusoidal DC brushless motor driver					

¹⁾ Requires pass through card XPS-DRV00P (supplied), for proper connection.

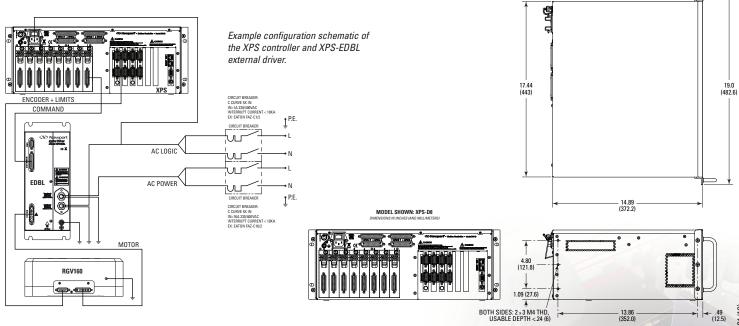


Installing driver cards.



SPECIFICATIONS

	XPS-DRV11	XPS-DRV00P	XPS-DRV01	XPS-DRV02	XPS-DRV02P	XPS-DRV02L	XPS-DRV03	XPS-DRVP1	XPS-EDBL
Number of Axis	1	1	1	1	1	1	1	1	1
Motor Type	Stepper, DC,	Pass through card	DC Motor	Brushless	Brushless	Brushless	DC Motor and	Piezo-stack	Brushless
	Linear or		and	Motor	Motor	Motor	DC Motor equipped		Motor
	Torque Motor		Stepper Motor	(3-phase)	(3-phase)	(3-phase)	with tachometer		(3-phase)
Driver Differentiators	Universal	Interface to external	Standard	Standard	Higher resolution,	Higher resolution	, Higher power,	Standard	Higher resolution,
		drivers with $\pm 10~\text{V}$			Higher power	Lower noise	Voltage,		Higher power
	an	ls,				Current or			
		or pulse & direction					Velocity control		
		capability							
Drive Type	High frequency,	_	PWM	PWM	PWM	PWM	PWM	LINEAR	PWM
	nano PWM								
Current Range/Voltage	6 A peak per chann	iel –	3 A/43 V	5 A/44 V	7 A/44 V	2 A/44 V	5 A/43 V	60 mA	25 A/96 V
	3 A continuous per channel							-10 V/+150 V	
Max. Power	600 W peak	-	144 W	180 W	250 W	72 W	240 W	9 W	1200 W (with fans)
	300 W continuous	S							576 W (without fans
Connector Interface	DB25	DB25	DB25	THERM/EOR: DB	9 THERM/EOR: DB9	THERM/EOR: DB9	DB25	DB25	Motor: 9W4
				Motor: DB9	Motor: DB9	Motor: DB9			EOR: DB9
									XPS: DB25
Operating Environment					0-40 °C				
					20-85% humidity				
	No corrosive gases								
Mounting	XPS	XPS	XPS	XPS	XPS	XPS	XPS	XPS	External
Weight	0.36 lb	0.71 lb	1.19 lb	0.79 lb	0.58 lb	0.58 lb	0.71 lb	1.5 lb	14.8 lb
	(0.165)	(0.32 kg)	(0.54 kg)	(0.36 kg)	(0.27 kg)	(0.27 kg)	(0.32 kg)	(0.68 kg)	(6.7 kg)
Dimensions				8.50" x 4.69" x 0.9	9"				7.75" x 10.3" x 12"
				(216 x 119 x 25.2 m	nm)				(121 x 262 x 305 mm)
Standards					CE, RoHS				





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