







Wide range of connectivity options



Programmable
PMP motion
controller
via MATLAB
Simulink
integration



Integrated filtering



Ultra-low output noise & High output linearity



EtherCAT, CANopen and IO bus device busses

Prodrive Technologies offers a number of drive options which are readily available. These drives can be operated in stand-alone mode, used in combination with one of our motion controllers, or can be integrated within an existing motion control system.

Powerful series of motion controllers for controlling demanding multi-axis motion systems. Supporting EtherCAT, CANopen and IObus communication networks, including multiple synchronized EtherCAT busses using the Prodrive Motion Platform (PMP).





Arcas series Compact fanless motion controller

- ✓ Up to 12 axes @ 10kHz
- ✓ GbE host interface
- ✓ EtherCAT, CANopen and IObus device busses
- ✓ Panel or DIN rail mounting

Detailed data sheet



Poseidon CFL series
Powerful x86-based motion controller

- ✓ Up to 70 axes @ 10kHz
- ✓ GbE host interface
- ✓ Multiple parallel EtherCAT device busses
- ✓ 19" rack mounting

Detailed data sheet



#### Controllers (Acras series)

Model		Arcas 2CG	Arcas 5EG	
Powerinput				
Vlogic input voltage, rated		12VDC - 24VDC		
V <sup>logic</sup> input voltage, absolute maxim	um	28V <sup>DC</sup>		
Maximum input power		35W		
GPIO				
Isolated	Digital inputs	4 x 24V input (V <sup>III</sup> ≥11V, V <sup>II</sup> ≤5V, I <sup>IN</sup> <15m	A)	
	Digital outputs	4 x 0-30V / 500mA		
Control				
Processor		Dual Cortex-A53 @ 1.2GHz	Quad Cortex-A53 @ 1.5GHz	
Number of cores	Real-time	1	3	
		1	1	
Number of axes		4 axes @ 10kHz	12 axes@ 10kHz	
Host interface		Gigabit Ethernet		
Device interfaces		1x EtherCAT bus 2x CANopen bus 2x IO bus		
Electrical safety				
Applicable standard		IEC 62368-1		
Accessibility		Closed electrical operating area		
Pollution degree		2		
Overvoltage category (primary circuits)		2		
IP-protection class / enclosure type		20 / open type		
Maximum altitude during operation		2000m		
EMC				
Applicable standards		EN 55011		
		IEC 61000-6-1		



#### Controllers (Arcas series)

Model	Arcas 2CG	Arcas 5EG

Mechanical & Environment	al	
Dimensions (WxDxH)		44 x 132 x 160mm
Mass		850g
Climatic conditions		
Operating	Temperature range	-5 – 45°C
	Humidity range	0-90% Non-condensing
Storage	Temperature range	-20 – 70°C
	Humidity range	0-95% non-condensing
Shock & Vibration	Standard	IEC 60068-2-27
Shock	Directions	All directions
	Peakacceleration	10G
	Pulse duration	11ms, 1000 bumps
	Wave shape	Half sine
Vibration	Frequency range	10-500Hz (sine)
	Peakacceleration	2G
Lifetime		≥ 10 Years





#### Controllers (Poseidon series)

Model	Poseidon G5400T-FFF-	Poseidon E2124G-FFF-	Poseidon E2226GE-FFF-	Poseidon E2278GE-
	GGG	GGG	GGG	FFF-GGG

Powerinput	
V <sup>logic</sup> input voltage, rated	100Vac - 127Vac, 200Vac - 240Vac
V <sup>logic</sup> input voltage, absolute maximum	264V <sup>AC</sup>
Maximum input power	500W

Control					
Processor		Dual-core x86 @ 3.1GHz	Quad-core x86@ 3.4GHz	Hex-core x86 @ 3.4GHz	Octo-core x86@ 3.3GHz
Number of cores	Real-time	1	3	5	7
	Management	1	1	1	1
Number of axes		10 axes@ 10kHz	30 axes @ 10kHz	50 axes @ 10kHz	70 axes@ 10kHz
Host interface		Gigabit Ethernet			
Device interfaces	Α	4x EtherCAT bus			
(GGG-option code)	BAH <sup>1</sup>	8x EtherCAT bus			
	AAH <sup>2</sup>	8x EtherCAT bus			
	AAI <sup>2</sup>	12x EtherCAT bus			
	$AAJ^2$	16x EtherCAT bus			
	$AAK^2$	20x EtherCAT bus			

Electrical safety	
Applicable standard	IEC 62368-1
Pollution degree	2
Overvoltage category (primary circuits)	2
IP-protection class	IPx0
Maximum altitude during operation	2000m

EMC	
Applicable standards	CISPR 35
	CISPR 32



#### Controllers (Poseidon series)

Model	Poseidon G5400T-FFF-	Poseidon E2124G-FFF-	Poseidon E2226GE-FFF-	Poseidon E2278GE-
	GGG	GGG	GGG	FFF-GGG

Mechanical & Environi	Mechanical & Environmental		
Dimensions (WxHxD) (FFF-option code)	1Ux	19" x 1U x 413mm	
	3Ux	19" x 1U x 450mm	
Mass (FFF-option code)	1Ux	19kg	
	3Ux	24kg	

Climatic conditions		
Operating	Temperature range	0 – 50°C
	Humidity range	10-90% non-condensing
Storage	Temperature range	-25 – 70°C
	Humidity range	10-95% non-condensing
Shock & Vibration	Standard	ISTA 2A
Lifetime		≥ 7 Years

