

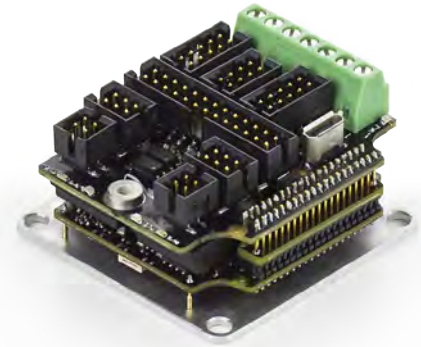
TRITON GO

DIGITAL SERVO DRIVE

The micro servo drive Triton provides top performance and fully featured motion controller.

With a footprint of just 43 x 43 mm it can control multiple motor types and is ready to interface EtherCAT or CANopen networks.

- ✓ Ultra compact design
- ✓ CANopen and EtherCAT
- ✓ Standalone operation
- ✓ Plug and Play



Triton Digital Servo Drive	Units	TRI-1/48	TRI-4/48	TRI-7/48
Supply Voltage	V_{DC}		8 - 48	
Maximum Phase Peak Current (2 s)	A_{RMS}	1	4	13
Maximum Phase Continuous Current	A_{RMS}	1	4	7
Standby Power Consumption	W		1.5	
Efficiency	%		>95	
Supported Motor Types		Rotary and Linear Brushless, Brush DC, Voice Coil		
Commutation		Sinusoidal and Trapezoidal		
Minimum Motor Inductance	μH		100	
Power Stage PWM Frequency	kHz		20, 80 (Configurable)	
Current Sensing			2 \emptyset , $\pm 1\%$ Accuracy, 10 bit	
Commutation Sensors		Digital Halls, Incremental Encoder, PWM, Analog		
Supported Feedback		SSI, Sin/Cos , Tacho, Digital/Analog Halls, Incremental Encoder, PWM, Analog Input		
Torque Loop Update Rate	kHz		10	
Position and Velocity Update Rate	kHz		1	
Motion Modes		Cyclic Sync, Interpolated, Profilers (Position, Velocity, Torque), Homing, Open Loop		
Supported Command Sources		Network, USB, Serial, Analog Input, PWM , Encoder Follower/Electronic Gearing, Step and Direction, Standalone		
Motion Controller		Yes, Standalone Operation with 64 Macros of 64 Commands		
Digital Inputs			4 (TTL and PLC)	
Analog Inputs			1 ($\pm 10 V$), 1 (0-5 V)	
Digital Outputs			4 (TTL and PLC)	
User Configurable Protections		STO Full Functionality, Bus Overvoltage and Undervoltage, Over and Under Temperature, Over Current, Overload (I ² T), Open Load Protection		
Hardware Protections		Short-circuit protections, ESD and EMI protections, Inverse Polarity Supply Protection, High Power Transient Voltage Suppressor for Short Braking		
Software Protections		Mechanical Limits for Homing Modes, Hall Sequence/Combination Error		
USB			Yes	
Serial			RS-485	
CANopen		Yes (DS-301, DS-303, DS-305, DS-306, DS-402)		
EtherCAT			Yes (CoE)	
Ambient Air Temperature (operating)	$^{\circ}C$		-40 to 100 (over 50 with current derating)	
Ambient Air Temperature (storage)	$^{\circ}C$		-50 to 125	
Maximum Humidity (non-condensing)	%		5 to 85	
Dimensions	mm (in)		43 x 45 x 23.5 (1.69 x 1.77 x 0.93)	
Weight	g (oz)		42 (1.48)	

