

Industrial EtherNet-Ready Servo Drives: EtherNet/IP & EtherCAT

The CBC-EIP is an integrated single-axis servo motor controller/driver with Ethernet/IP connectivity. The CBC-ECT is an integrated single-axis servo motor controller/driver with EtherCAT connectivity. Either can operate as stand-alone or be built in to SMAC actuators eliminating control boxes or complicated cabling, which simplifies the design and integration process of systems.



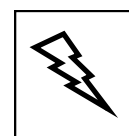
Features:



Safe Torque
Off



Brushed &
Brushless



3 Amps Continuous,
6 Amps Peak

www.smac-mca.com

SMAC

Moving Coil Actuators

SPECIFICATIONS

Specification	EtherNet/IP (CBC-EIP)	EtherCAT (CBC-ECT)
Supported Motor Type	3-phase brushless rotary/linear, 1-phase rotary/linear	3-phase brushless rotary/linear, 1-phase rotary/linear
Control Loop Update Rate	<ul style="list-style-type: none"> Position Loop: 1kHz Current Loop: 10kHz 	<ul style="list-style-type: none"> Position Loop: 1kHz Current Loop: 10kHz
Power Supply Voltage	8VDC - 48VDC	8VDC - 48VDC
Power Supply Current	2A - 7A	2A - 7A
Continuous Current	3 Amps	3 Amps
Peak Current	6 Amps (for 1s)	6 Amps (for 1s)
Power Stage PWM Frequency	20kHz	20kHz
Available Feedback Inputs	Differential digital encoder with index, analog input	Differential digital encoder with index, analog input
Memory	1024kB of program memory, 512kB of EEPROM memory	1024kB of program memory, 512kB of EEPROM memory
Digital Inputs	4x PLC level isolated digital inputs	4x PLC level isolated digital inputs
Digital Outputs	4x SSR (solid-state relay) isolated digital outputs	4x SSR (solid-state relay) isolated digital outputs
Output Supply	1x 5V output supply for powering external circuitry	1x 5V output supply for powering external circuitry
Analog Input	1x 0 - 5V single ended analog input	1x 0 - 5V single ended analog input
Protections	<ul style="list-style-type: none"> Driver overtemperature warning at 125 degrees C Driver overtemperature at 150 degrees C Overcurrent Reverse polarity protection 	<ul style="list-style-type: none"> Driver overtemperature warning at 125 degrees C Driver overtemperature at 150 degrees C Overcurrent Reverse polarity protection
STO (Safe Torque Off)	<p>SIL 3 compliant:</p> <ul style="list-style-type: none"> 2x STO inputs, 5V to 30V isolated inputs 1x STO feedback output (optional) External diagnostics capability Abnormal operation detection 	<p>SIL 3 compliant:</p> <ul style="list-style-type: none"> 2x STO inputs, 5V to 30V isolated inputs 1x STO feedback output (optional) External diagnostics capability Abnormal operation detection
Communications	<p>Ethernet/IP (2-port):</p> <ul style="list-style-type: none"> RS232 (for configuration purposes) Ethernet/IP (2-port) with the following features: <ul style="list-style-type: none"> ⇒ ODVA conformant ⇒ Up to 6x simultaneous class 3 connections ⇒ 1x class 1 connection of type exclusive owner ⇒ Requested packet interval rate: 1 – 3200 ms ⇒ Device level ring 	<p>EtherCAT (2-port):</p> <ul style="list-style-type: none"> RS232 (for configuration purposes) DS402 drive profile compliant Up to 8x mappable PDO object (each direction) of 32 bits Distributed Clock (DC) sync mode



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EtherCAT is a registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.