





Everything's possible.

Servo Drive Overview

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www.servo2go.com



About ADVANCED Motion Controls

ADVANCED Motion Controls has earned a reputation for being a flexible and affordable manufacturer of quality high performance and high power density servo drives. Camarillo California is home to our state-of-the-art 80,000 square foot facility that integrates Engineering, Manufacturing, Testing and Support in a single location. Using our standard product line as a starting point our customers know they can specify modifications and custom solutions to solve their specific problems. This frees our customers to design systems without the constraints imposed by other servo drive manufacturers.

Any Motor, Any Controller, Any Feedback!

Our core business is servo drives. We offer hundreds of standard models, and if we don't have what you need we can work with you to create a custom solution that does. Our servo drives can be found all over the world in the highest performance applications, the harshest environments as well as working reliably in day to day operations throughout the world.



25 Years of Excellence

25 years of servo drive manufacturing, with over 2 million servo axes built and shipped worldwide!



Finding the right *ADVANCED* Motion Controls' servo drive for your application is easy. Enter key parameters into the Automated Servo Drive Selection Tool at www.a-m-c.com, and automatically receive a list of servo drives that meet your requirements. You can also browse through our Servo Drive Family Product Tables, or if you already know the model number, simply enter it into the Product Resource Center to find the appropriate datasheet, installation manual, and product drawing.







ADVANCED Motion Controls Servo Drive Overview



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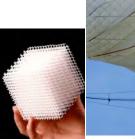
For Company Information, Product Datasheets, Installation, Manuals and Downloads visit www.a-m-c.com

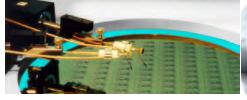




Company and Product Capabilities











Networks

ADVANCED Motion Controls offers a variety of network options for connecting servo drives in a multi-axis configuration. Choosing the right network depends on a variety of factors such as required bandwidth, update rate, performance, and cost. Currently supported network options are: CANopen, EtherCAT®, RS232, RS485.



RS-485/232

EtherCAT® - EtherCAT is a registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany. The ADVANCED Motion Controls' EtherCAT interface follows the ETG.1000.6 EtherCAT Application Layer protocol specification and the ETG.6010 Implementation guideline for CiA402 drive profile.

CANopen - An open standard embedded machine control protocol developed for the CAN physical layer, following the CiA (CAN in Automation) DS301 communications profile and the CiA DSP402 device profile

RS485/232 - ADVANCED Motion Controls' proprietary serial protocol, a byte-based, binary, master-slave standard to access drive commands.

We also have the ability to quickly produce custom DigiFlex® drives utilizing Ethernet TCP/IP, Ethernet Powerlink, or many other common types of network communication.

Motors

As a company whose core business is servo drives we have to be compatible with as many motors and motor technologies as possible. We have servo drives that work with: Brushed DC, Brushless: AC & DC, Linear & Rotary, AC Induction, Voice Coil, Trapezoidal & Sinusoidal commutation. Many of our drives can work with all of the above with only a few minor configuration settings.

Feedback

To give our customers the greatest flexibility we offer a wide variety of motor feedback options. Standard feedback options include: Halls, Incremental Encoder, Resolver, 1Vp-p Sine/Cosine Encoder, Stegmann Hiperface®, Heidenhain EnDat® and Tachometer. On our DigiFlex® Performance™ drives we also have the option for auxiliary feedback for_{Sold & Serviced By:} dual loop control.

Accessories

As a convenience to our customers we offer power supplies, filter cards, Toll Free Phone: 877-378-024 shunt regulators and mounting cards to complement our servo drives.





Technology and Solutions to Problems

Combining cutting-edge technology and creative engineering, *ADVANCED* Motion Controls is able to design and manufacture high quality servo drives capable of delivering high power at a low cost. As the demands of the motion control industry have increasingly asked for better performance, more features, and simplified integration, *ADVANCED* Motion Controls has responded by finding resourceful solutions to the problems faced by OEMs and servo system designers. Whether by implementing innovative design techniques throughout our line of standard products, or by directly solving a specific customer's application with a brand-new custom product, *ADVANCED* Motion Controls has the drive expertise to take on your servo system challenge.

Applications and Industries

ADVANCED Motion Controls is able to utilize our extensive experience in providing high performance servo drives to support motion control applications in numerous industries. With an ever-expanding customer base across new and emerging fields, and having been established as a top supplier for traditional servo solutions, ADVANCED Motion Controls brings our wealth of diverse motion control knowledge to a wide variety of industries, including but not limited to:



Assembly Automation and General Factory Machinery



Communications Control



Electric Mobility and Mobile Robotics



Entertainment



Homeland Security and Defense



Inspection Testing and Rapid Prototyping



Lab Automation



Machine Tool and Metalworking



Material Handling and Conveyed Systems



Medica



Packaging



Power Generation and Alternative Energy Sources



Robotics (fixed)



Semiconductor



Simulators

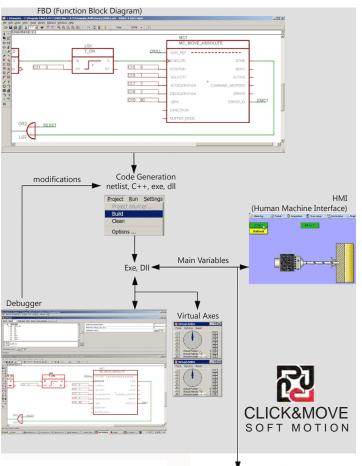


Click&Move®

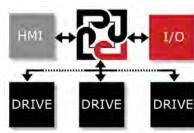


Click&Move® (C&M®) Software

Click&Move® is a Windows-based soft motion and automation solution that uses function blocks described under IEC 61131-3 as the programming method. Function block programming allows non-programmers to fully develop and implement motion control and automation programs in a GUI environment. Click&Move also includes a built in graphical HMI that displays the machine operation on screen.



Machine with network drives



- Standard PLCopen Function Blocks library for Motion Control is included
- New Function Blocks can also be created with an encapsulated user C++ program.

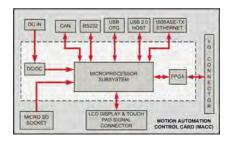
Click&Move® programs can run on Windows based PC's, Motion Automation Control Cards (MACC), or on embedded *ADVANCED* Motion Controls' servo drives, all at low cost to solve a variety of applications. Using the PC based approach provides for servo drive and I/O command update rates in the millisecond range.

Motion Automation Control Card (MACC)

ADVANCED Motion Controls has designed a dedicated MACC with embedded Click&Move® programming capability. Key highlights are:

- Based on an ARM microprocessor operating with real-time Linux
- Stand-alone card with network connections, and can be optionally packaged in a standard DIN rail plastic case
- External I/O module connectivity
- Optional plug-in I/O module with dedicated and user-defined digital and analog I/O





The MACC serves as a general purpose motion/automation controller:

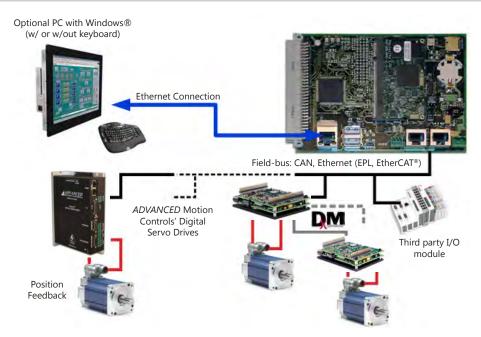
- Controlling a network of digital drives and I/Os
- Controlling servo drives with ±10V torque or velocity command inputs for lower cost/higher update rate solution
- Fully functional PLC utilizing C&M programmability and I/O modules

The C&M user program can be developed, compiled and tested on a PC and simply recompiled for the MACC platform. Once downloaded into the MACC, it can also be debugged via Ethernet UDP/IP. The program may also be controlled/monitored in real time via the UDP/IP connection by a PC with a client C&M application.

Sold & Serviced By: C&M user programs con also be distributed between the PC and the MACC; the fast, time critical portion of the application of the application of the application of the MACC while C&M's HMI and slower portions run in the PC. Connections made via Ethernet.

The humber of thotion axes 78 only limited by the axis update rate. This axis update rate is influenced by the size and complexity of the 782 M2 application program.





MACC with Network Drives and I/O Modules

This solution can meet demands for drive and I/O command update rates in the few hundred microseconds range. The MACC integrates field bus masters, such as EtherCAT® or Ethernet Powerlink (EPL), directly or they can be installed into an external PC.

To lower drive system costs, *ADVANCED* Motion Controls' exclusive 'DxM' Technology can be utilized. Using only one EtherCAT® drive, other sub-nodes could be readily connected.

&MOVE® SOLUTION



MACC with Torque or Velocity Mode Drives

The analog outputs of the plug-in I/O module of the MACC are connected to the ±10V input of torque or velocity mode drives. Non-networked servo drives, combined with the MACC, provide a system with the lowest overall cost.

This solution can meet demands for drive and I/O command update rates in the 50 microsecond range. However, due to noise and wiring considerations, cable length between the drives/motors and the controller is limited to within a few meters. By:

In this case, motor feedback connections are made to the external I/O meters.

To provide additional I/Os, pins of the MACC's FPGA are buffered and brought out to an optional connector which can be used by a plug-in I/O expansion card with an SSI (synchronous serial interface).

MACC with Linux Optional PC with Windows® (w/ or w/out keyboard) Third party I/O **Ethernet Connection** module Plug-in I/O Module **ADVANCED** Motion Controls' Analog and/or ±10V Command Non-networked External Digital Digital Servo and Analog Drives User I/Os For For Velocity Velocity Mode Mode Position Feedback

DigiFlex® Performance™ Digital Servo Drives





The family of DigiFlex® Performance™ digital servo drives provide a wide range of options for servo system solutions. DigiFlex® Performance™ (DP) drives deliver peak power output from 1.5 to 27.4kW, and support an array of feedback options. Driving single phase, three phase, and closed loop vector motors with the ability to interface with both digital network commands and traditional ±10V analog commands, DP drives offer a versatile blend of cutting edge technology and proven results.

- Universal servo motor capability by means of automatic commutation adjustment
- Variety of feedback options Absolute Encoder (Heidenhain EnDat® or Stegmann Hiperface®), Sin/Cos Encoder, Incremental Encoder, Hall Sensors, Resolver, Tachometer
- Full tuning control of Position, Velocity, and Torque Loops
- Real-time oscilloscope for highperformance tuning
- Status panel for drive and system diagnostics
- I/O configuration for over 60 events and signals
- Dual loop feedback and control increases stability and accuracy
- Stand-alone or network configuration
- Standard models in both Panel Mount, PCB Mount (Z-Drives), and Vehicle Mount (M/V™ Series Motor Controllers)
- Employs Space Vector Modulation, resulting in higher bus voltage utilization and reduced heat dissipation
- Extended Environment Versions available (DZX series Z-Drives) **SERVO GO.com**

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DIGIFLEX® PERFORMANCE™









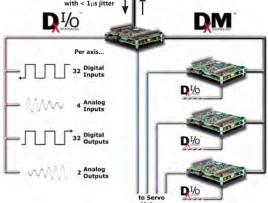
RS-485/232 SERIAL

Any Network POWERLINK





EtherCAT. 100μs cycle time with < 1μs jitte $\mathbf{D}^{\mathrm{I}}\!\!\!/\!\!\!\circ$



ADVANCED Motion Controls' Exclusive

Innovations in EtherCAT® Connectivity





'DxM'[™] Technology allows connectivity of up to 3 DZS (sub-nodes) to a single DZE (node) on an EtherCAT® network, providing control of up to 4 axes of servo motion at a reduced cost.

'DxI/O'™ Technology accomodates 70 additional digital and analog I/O points for each axis in a 'DxM' configuration, up to 280 I/O total!



and interface.

DriveWare® 7 is the powerful servo drive tuning and configuration software used to commission and troubleshoot all ADVANCED Motion Controls DigiFlex® Performance™ digital servo drives. All drive limits, control loops (current, velocity, and position), and event handling can be configured. in DriveWare. Notable feature RV include a fully functional multiple.

AAK Demo MotorParameters
PautoComm
Incode Options
Analog Inputs
Analog Jutputs
Analog Jutputs
Digital Dutputs
Digital Dutputs
Ng Current
Velocity
I Position GO.com channel oscilloscope, function generator and user friendly layout hone: 877-378-0240 Toll Free Fax: 877-378-0249

> sales@servo2go.com www.servo2g capVANCED MOTION CONTROLS







DPC series - CANopen panel mount

• 1.5 - 27.4 kW Peak Power Output

• 0.8 - 13.7 kW Cont. Power Output

Panel Mount Drives

DPC drives are enclosed by a metal cover and can be mounted on their spine or flat against the base.

Communication

- CANopen Networking
- RS232 Drive Commissioning

Command Types

- Over the Network
- ±10V Analog
- PWM and Direction
- Encoder Following

Power Range

- Indexing
- Jogging

Auxiliary Feedback

Primary Feedback

1Vp-p Sin/Cos Encoder

Incremental Encoder

Absolute Sin/Cos Encoder (Heidenhain

EnDat® or Stegmann Hiperface®)

Hall Sensors

Resolver

- · Aux. Incremental Encoder
- Tachometer

25

12.5

CANopen







To build a model number, select a control module by feedback type, then combine with a power module that suits your system's requirements, 24 VDC I/O Control Modules combine with AC Power Modules, and 5VTTL I/O Control Modules combine with DC Power Modules.



Combine to form model number



Feedback

DPCANIA-Absolute

Encoder

DPCANIE-Incremental Encoder

DPCANIR-Resolver

DPCANIS-

Sin/Cos Encoder

AC Power Modules

Example: DPCANIS-060A800

	015S400	015A400	030A400	C060A400	C100A400	030A800	060A800
Supply (VAC)	100-240*	100-240	100-240	200-240	200-240	200-480	200-480
Peak Current (A)	15	15	30	60	100	30	60
Cont. Current (A)	7.5	7.5	15	30	50	15	30
Dimensions (mm)	177 x 123 x 44	177 x 140 x 56	202 x 157 x 70	257 x 183 x 84	257 x 183 x 135	301 x 232 x 92	301 x 232 x 139

*Single Phase AC Only



5VTTL I/O Control Modules

DPCANTE-

DPCANTR-

Feedback

Incremental Encoder

Resolver

DC Power Modules

Example: DPCANTR-015B200

020B080 040B080 060B080 015B200 025B200 Supply (VDC) Serviced By: 20-80 20-80 20-80 40-190 20-190 Peak Current (A) FR 60 15 Cont. Current (A) 30 7.5 Dimensions Toll Free Phone: 877-378-0240 Toll Free Fax: 877-378-0249 191 x 112 x 36 133 x 90 x 36 191 x 112 x 36

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DZC series - CANopen pcb mount

Z-Drives Plug-In Integration

DZC drives are packaged in a lightweight and compact form factor designed to be embedded directly into a PCB - no wires required! Inverted baseplate mounting also allows for direct wired connector access. A common footprint is used for the different power modules in the series to simplify prototyping.

Communication

- CANopen Networking
- USB Drive Commissioning (DZCANTU)
- RS232 Drive Commissioning (DZCANTE)

Command Types

- Over the Network
- ±10V Analog
- PWM and Direction
- Encoder Following
- Indexing
- Jogging

Power Range

- 0.9 4.6 kW Peak Power Output
- 0.5 2.3 kW Cont. Power Output

Firmware Selectable Feedback (DZCANTU)

- Absolute Sin/Cos Encoder (Heidenhain EnDat® or Stegmann Hiperface®)
- 1Vp-p Sin/Cos Encoder
- Incremental Encoder

Primary Feedback (DZCANTE)

Incremental Encoder

Auxiliary Feedback

- Hall Sensors
- · Aux. Incremental Encoder
- Tachometer

To build a model number, choose a control module then combine with a power module to meet your system's requirements. Note that only certain power modules can be combined with each respective control module.







DZCANTU-

Absolute Encoder Feedback Incremental Encoder Sin/Cos Encoder

Combine to form model number

Control Module

DZCANTE-

Feedback

DZCANTE DC Power Modules

Incremental







DZCANTU DC Power Modules

	020B080	040B080	020B200		012L080	020L080	040L080	060L080	010L200	0
Supply (VDC)	20-80	20-80	40-175	Supply (VDC)	20-80	10-80	10-80	10-80	40-175	
Peak Current (A)	20	40	20	Peak Current (A)	12	20	40	60	10	
Cont. Current (A)	10	20	10	Cont. Current (A)	6	12	20	30	5	
imensions (mm)	90 x 64 x 20	90 x 64 x 20	90 x 64 x 20	Dimensions (mm)	64 x 51 x 18	64 x 51 x 23	76 x 51 x 23	76 x 51 x 23	64 x 51 x 23	7
Example: DZC	ANTU-020B	080		Example: DZ	CANTE-040L	.080				

ADVANCED Motion Controls offers mounting cards and mating connector kits to simplify the connections between DZC drives and external system hardware (motors, feedback devices, controllers). These mounting cards are ideal for the prototyping and development stages as well as implementation into the final system design.

DZCANTU Mounting Cards**

	Axes	Motor/Power Connector		
MC1XDZPC01	1	Side-entry screw terminal	175	40

^{**}Mating connector housing and socket contacts can be ordered as a kit using ADVANCED Motion Controls' part numbers KC-MC1XDZP01.

DZCANTE Mounting Cards†

	Axes	Motor/Power Connector	Max Voltage	Max Peak Current
Sold & Serviced By: MC1XDZC02	,	Side-entry screw terminal	175	40
MC1877002		ercomentry quick-disconnect	175	25
MC1XDZC02-HP1 Toll Free Pho	ne: 877-	Side-entry screw terminal	80	60

†Mating connector housing and specket song city song ordered as a kit using ADVANCED Motion Controls' part number KC-MC1XDZ02

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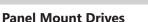












Command Types Over the Network DPE drives are enclosed by a metal cover and can be mounted on their spine or flat against

+/-10V Analog

Encoder Following

Indexing

Jogging

Aux. Incremental Encoder

030A800

200-480

30

15

301 x 232 x 92

Communication

the base.

- EtherCAT® Networking (CoE based on DSP-402 device profile)
- USB Drive Commissioning

Power Range

• 1.5 - 27.4 kW Peak Power Output

DPE series - EtherCAT® panel mount

• 0.8 - 13.7 kW Cont. Power Output

To build a model number, combine the DPEANIU control module with a power module to meet your system's requirements.

C060A400

200-240

60

30

257 x 183 x 84

FtherCAT











DPEANIU-

Feedback

AC Power Modules

Supply (VAC)

Peak Current (A)

Cont. Current (A)

*Single Phase AC Only

Absolute Encoder Incremental Encoder Sin/Cos Encoder

030A400

100-240

30

15

202 x 157 x 70

Universal Feedback

C100A400

200-240

100

50

257 x 183 x 135

DPE drives support all the listed feedback devices simply by changing the drive firmware. The appropriate firmware can be uploaded to the drive through DriveWare® and is included with the software download.

060A800

200-480

60

30

301 x 232 x 139











020B080

015S400

100-240*

15

7.5

Supply (VDC) 20-80 Peak Current (A) 20 Cont. Current (A) 10

Dimensions (mm) 177 x 123 x 44

Dimensions (mm) Pervice 17 Ryg0 x36



Examples: DPEANIU-015S400 **DPEANIU-020B080**



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Firmware Selectable **Primary Feedback**

 Absolute Sin/Cos Encoder (Heidenhain EnDat®, Stegmann Hiperface®, or BiSS C-Mode)

1Vp-p Sin/Cos Encoder

· Incremental Encoder

Auxiliary Feedback

Hall Sensors

Tachometer

DZE/DZS series - EtherCAT® pcb mount

Z-Drives Plug-In Integration

DZE/DZS drives are packaged in a lightweight and compact form factor designed to be embedded directly into a PCB - no wires required! Inverted baseplate mounting also allows for direct wired connector access. A common footprint is used for the different power modules in the series to simplify prototyping.

Communication

• EtherCAT® Networking - (CoE - based on DSP-402 device profile)

Node Type

∘ 'DxM'[™] Technology

meet your system's requirements.

Combine to

form model

number

USB Drive Commissioning

Command Types

- Over the Network
- ±10V Analog
- Encoder Following
- Indexing
- Jogging

Power Range

To build a model number, select a control module based on the EtherCAT® node type and combine with a power module to

DZSANTU-

Sub-Node

Absolute Encoder

Sin/Cos Encoder

- 1.5 3.3kW Peak Power Output
- 0.8 1.6kW Cont. Power Output

Firmware Selectable Feedback

- Absolute Sin/Cos Encoder (Heidenhain EnDat® or Stegmann Hiperface®)
- 1Vp-p Sin/Cos Encoder
- Incremental Encoder

Auxiliary Feedback

- Hall Sensors
- Aux. Incremental Encoder
- Tachometer



















Universal Feedback Control Modules

These drives support all the listed feedback devices simply by changing the drive firmware. The appropriate firmware can be uploaded to the drive through DriveWare® and is included with the software download.

DC Power Module 020B080 040B080 020B200 **Examples:** DZEANTU-020B080 Supply (VDC) 20-80 20-80 40-175 **DZSANTU-020B080** Peak Current (A) 20 40 20 Cont. Current (A) 10 20 10 90 x 64 x 20 90 x 64 x 20 90 x 64 x 20 Dimensions (mm)

DZEANTU-

Node

Absolute Encoder

Feedback Incremental Encoder Incremental Encoder Sin/Cos Encoder

> DZE drives can be used as a stand-alone EtherCAT® node in a single-axis setup or as part of a larger multi-axis EtherCAT® network. DZS drives must be used as subnodes in a 'DxM' configuration with a DZE node.

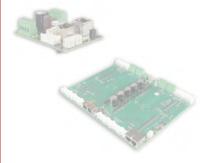
ADVANCED Motion Controls offers mounting cards to simplify the connections between DZE/DZS drives and external system hardware (motors, feedback devices, controllers). These mounting cards are ideal for the prototyping and development stages as well as implementation into the final system design. The MC1XDZPE01 is designed to mount a DZE drive, while the MC4XDZP01 mounts one DZE drive and three DZS drives in a 'DxM' configuration.

Mounting Cards									
	Axes	Motor/Power Connector	Max Voltage	Mą Cu					
MC1XDZPE01	1	Side-entry screw terminal	175						
MC4XDZP01	4	Side-entry screw terminal	175						
*Per Axis									

Mating Connector Kit

Example 2 Representation of the street of dered as a kit using ADVANCED Motion Controls' 40 **SERVING TO THE MC1XDZP01** for the MC1XDZPE01 are **G-MC4XDZP01** for the MC4XDZP01.

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Rohs (& c This





DPR series - RS485/232 panel mount

Panel Mount Drives

DPR drives are enclosed by a metal cover and can be mounted on their spine or flat against the base.

Communication

 RS485/232 Networking and Drive Commissioning

Command Types

- Over the Network (All)
- +/-10V Analog (DPRAxIx)
- 24V Step and Direction (DPRAHIx)
- 5V Step and Direction (DPRxLxx)

• 1.5 - 27.4 kW Peak Power Output 0.8 - 13.7 kW Cont. Power Output

- PWM and Direction (All)
- Encoder Following (All)
- Indexing (All)
- Jogging (All)

Power Range

Auxiliary Feedback

Primary Feedback

1Vp-p Sin/Cos Encoder

· Incremental Encoder

or Stegmann Hiperface®)

Absolute Sin/Cos Encoder (Heidenhain EnDat®

030A800

200-480

30

15

301 x 232 x 92

060A800

200-480

60

30

301 x 232 x 139

Resolver

C100A400

200-240

100

50

257 x 183 x 135

025B200

20-190

25

125

RS-485/232 **SERIAL**









To build a model number, select a control module by command (see Command Types above) and feedback type, then combine with a power module that suits your system's requirements. 24 VDC I/O Control Modules combine with AC Power Modules, and 5VTTL Control Modules combine with DC Power Modules.

030A400



























(RoHS



Feedback

Incremental Encoder

020B080

Resolver

DPRALTR-040B080

Sold & Serviced By:							
Supply (VDC)	20-80	20					
Peak Current (A)	RVOZ	GO. ¢					
Cont. Current (A)	-10	2					

08-0 40m

040B080

60 30

15 7.5

015B200

40-190

133 x 90 x 36 191 x 112 x 36

ervo2go.com

Hall Sensors

Aux. Incremental Encoder

Tachometer

	DPRAHIA-	DPRAHIE-	DPRAHIR-	DPRAHIS-	DPRANIE-	DPRANIR-	DPRNLIE-
Feedback	Absolute Encoder	Incremental Encoder	Resolver	Sin/Cos Encoder	Incremental Encoder	Resolver	Incremental Encoder

C060A400

200-240

60

30

257 x 183 x 84

AC Power Modules

	0200.00	0_0/1100	00071.00
Supply (VAC)	100-240*	100-240	100-240
Peak Current (A)	15	15	30
Cont. Current (A)	7.5	7.5	15
Dimensions (mm)	177 x 123 x 44	177 x 140 x 56	202 x 157 x 70

0155400

*Single Phase AC Only

5VTTL I/O Control Modules

DPRALTE-DPRALTR-

015A400

060B080

20-80

191 x 112 x 36

DC Power Modules

Example:

Combine to form model

number

Tolf Free Phone: 877-378-0240 Dimensions (mm) Free 1983.6877-137810249

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2U * **177** 3

DZR series - RS485/232 pcb mount

Z-Drives Plug-In Integration

DZR drives are packaged in a lightweight and compact form factor designed to be embedded directly into a PCB - no wires required! Inverted baseplate mounting also allows for direct wired connector access. A common footprint is used for the different power modules in the series to simplify prototyping.

Communication

Commissioning

Dimensions (mm)

MC1XDZR02-HP1

Command Types

- Over the Network
- ±10V Analog
- 5V Step and Direction
- PWM and Direction
- Encoder Following
- Indexina
- Jogging

Primary Feedback

Incremental Encoder

Auxiliary Feedback

- Hall Sensors
- Aux. Incremental Encoder

025L200

40-175

25

12.5

76 x 51 x 23

Tachometer







RS-485/232 SERIAL



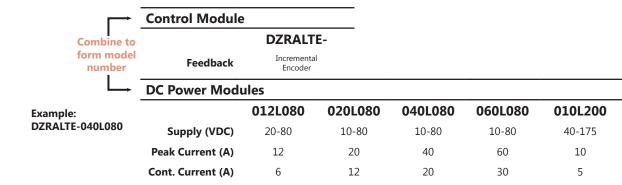


RS485/232 Networking and Drive

Power Range

- 0.9 4.6 kW Peak Power Output
- 0.5 2.3 kW Cont. Power Output

To build a model number, combine a power module to meet your system's requirements with the DZRALTE control module.



64 x 51 x 18

ADVANCED Motion Controls offers mounting cards and mating connector kits to simplify the connections between DZR drives and external system hardware (motors, feedback devices, controllers). These mounting cards are ideal for the prototyping and development stages as well as implementation into the final system design.

76 x 51 x 23

64 x 51 x 23

Mounting Cards				
	Axes	Motor/Power Connector	Max Voltage Sold & Serviced By:	Max Peak Current
MC1XDZR02	1	Side-entry screw terminal	175	40
MC1XDZR02-QD	1	Vertical-entry quick-disconnect	12SERVO	GO.com

Side-entry screw terminal

Toll Free Phone: 87%-378-0240 Toll Free Fax: 877-378-0249 sales@servo2go.com

www.servo2a

76 x 51 x 23

64 x 51 x 23

Motion Controls' part number KC-MC1XDZ02.

Mating Connector Kit Mating connector housing and socket contacts can be ordered as a kit using ADVANCED









RoHS (& c This

Analog Servo Drives





ADVANCED Motion Controls' family of Analog Servo Drives provide unparalleled benefits in both simplicity and performance. Drive setup and operation is more straightforward than digital drives, while acheiving higher bandwidth and faster response times at a lower cost. Analog drive technology has been a staple of servo system solutions since day one, and our years of experience in building the highest quality products has created a solid and continuously improving selection of analog drives. A variety of command options, including ±10V analog, PWM and Direction, dual Sine wave, and specialized electric vehicle commands make the ADVANCED Motion Controls' family of analog drives your best choice for proven servo solutions.



- Built-in hardware protection Over Current, Over Voltage, Over Temperature, Short Circuit
- DIP Switches and Potentiometers for loop tuning, current limit adjustments, and drive configuration
- Standard models for both brushed and brushless motor varieties
- Velocity feedback provided by incremental encoder, Hall Sensors, or tachometer
- Analog Position Loop control available
- Optical Isolation between high and low power signals standard on most models
- Current, Velocity, and Fault Monitor analog output signals
- Status LEDs for power and drive status
- Standard models in both Panel Mount, PCB Mount (Z-Drives), and Vehicle Mount (M/V™ Series Motor Controllers)
- Four quadrant regenerative operation
- Extended Environment versions available (AZX series Zaprives) ced By:



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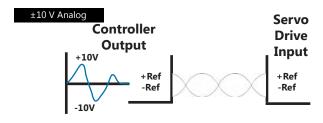




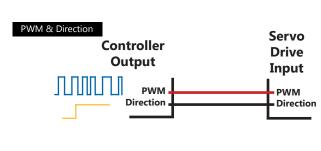




Input Command Signals



» Single-ended or differential ±10V analog input command used to adjust the motor current, voltage or speed.



- » Direct PWM PWM & Direction signals translate directly to the output, providing direct control of the output duty-cycle and switching frequency. Direct PWM has the fastest response of all our products as there are no gain stages or integrators.
- » Torque Mode PWM The PWM signal is converted to an analog voltage in the drive used as the command signal into the current loop (similar to current mode in other products). The input dutycycle controls the drive's output current.



www.servo2gd

» Two sinusoidal command signals that correspond to the motor phase current that control the commutation and torque to the motor.

B, BD, BE, and BX series - Brushless panel mount





Panel Mount Drives

These analog brushless drives are enclosed by a metal cover and can be mounted on their spine or flat against the base.

Command Types

- ±10V Analog
- Direct PWM and Direction ('BD' Drives)
- Torque Mode PWM and Direction ('BDC' Drives)

Potentiometers

- Loop Gain
- Current Limit
- Reference Gain
- Offset/Test Signal

Primary Feedback

- Hall Sensors
- Incremental Encoder
- Tachometer

Modes of Operation

- ∘ 'B' Drives Current, Hall Velocity, Encoder Velocity
- 'BE' Drives Encoder Velocity
- · 'BX' Drives Current, Hall Velocity, Encoder
- 'BD' and 'BDC' Drives Torque Mode PWM, Direct PWM

Power Range

- 1.1 35.4kW Peak Power Output
- 0.6 17.7kW Cont. Power Output



To select a model number, choose a series based on the mode of operation, then find a model that matches your system's power requirements. Note that not all listed modes of operation are included on every drive in the series. Additional ordering options are also available. Consult the drive datasheet for specific modes and ordering options.



















'B' Series Models - Current, Hall Velocity, Encoder Velocity								
	Supply (VAC)	Supply (VDC)	Peak Current (A)	Cont. Current (A)	Dimensions (mm)			
B15A8	-	20-80	15	7.5	129 x 76 x 25			
BE15A8-H	-	20-80	15	7.5	129 x 76 x 25			
B30A8	-	20-80	30	15	187 x 112 x 25			
B25A20AC	30-125	40-190	25	12.5	187 x 107 x 62			
B25A20I	-	40-190	25	12.5	187 x 112 x 25			
B40A20I	-	40-190	40	20	187 x 112 x 25			
B30A40	-	60-400	30	15	203 x 143 x 41			
B30A40AC	45-265	60-400	30	15	203 x 166 x 103			
B40A40AC	45-265	60-400	40	20	235 x 164 x 114			
B40A40	-	60-400	40	20	235 x 159 x 64			
B060A400AC	200-240	255-373	60	30	257 x 183 x 84			
B100A400AC	200-240	255-373	100	50	257 x 183 x 135			

	Supply	Supply Peak	Cont.	Dimensions
	(VAC)	Supply Peak (VDC) Serviced By: (VDC) Current	Current	(mm)
		(A)		
BASUVO		SERV		J.com

'BX' Series Models - Current, Hall Velocity, Encoder Velocity

607200 Free29 hone12877-3788 x 00240 BX25A20AC 45-125 60-20011 Free Fax: 8757-37880244937 BX25A20

> sales@servo2go.com ervo2go.com

'BE' Series Models - Encoder Velocity						
	Supply (VAC)	Supply (VDC)	Peak Current (A)	Cont. Current (A)	Dimensions (mm)	
BE15A8	-	20-80	15	7.5	129 x 76 x 25	
BE30A8	-	20-80	30	15	187 x 112 x 25	
BE25A20AC	30-125	40-190	25	12.5	187 x 107 x 62	
BE25A20I	-	40-190	25	12.5	187 x 112 x 25	
BE40A20I	-	40-190	40	20	187 x 112 x 25	

'BD' Series Models - Direct PWM							
	Supply (VAC)	Supply (VDC)	Peak Current (A)	Cont. Current (A)	Dimensions (mm)		
BD15A8	-	20-80	15	7.5	129 x 76 x 25		
BD30A8	-	20-80	30	15	187 x 112 x 25		
BD25A20AC	30-125	40-190	25	12.5	187 x 107 x 62		
BD25A20I	-	40-190	25	12.5	187 x 112 x 25		

'BDC' Series I					
	Supply (VAC)	Supply (VDC)	Peak Current (A)	Cont. Current (A)	Dimensions (mm)
BDC30A8	-	20-80	30	15	187 x 112 x 37
BDC40A20	-	60-190	40	20	187 x 112 x 37
	BDC30A8	Supply (VAC) BDC30A8 -	Supply (VAC) Supply (VDC) BDC30A8 - 20-80	Supply Supply (VAC) (VDC) Current (A) BDC30A8 - 20-80 30	(VAC) (VDC) Current (A) Current (A) BDC30A8 - 20-80 30 15

AZ series - Brushless/Brushed pcb mount

Z-Drives Plug-In Integration

AZ drives are packaged in a lightweight and compact form factor designed to be embedded directly into a PCB - no wires required! Inverted baseplate mounting also allows for direct wired connector access. A common footprint is used for the different power modules in the series to simplify prototyping.

Command Types

- ±10V Analog
- PWM and Direction (Torque Mode)

Modes of Operation

- Current
- Encoder Velocity
- Hall Velocity
- Duty Cycle (Open Loop)
- Torque Mode PWM

Power Range

- 0.3 4.6kW Peak Power Output
- 0.2 2.3kW Cont. Power Output

Primary Feedback

- Hall Sensors
- Incremental Encoder
- Tachometer

Potentiometers

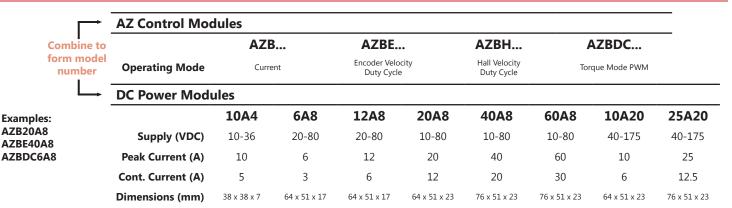
- Loop Gain
- Offset







To build a model number, select a control module based on the desired mode of operation, then combine with a power module to meet your system's requirements.



ADVANCED Motion Controls offers mounting cards to simplify the connections between AZ drives and external system hardware (motors, feedback devices, controllers). These mounting cards are ideal for the prototyping and development stages as well as implementation into the final system design.

Mounting Cards				
	Axes	Motor/Power Connector Sold & Serviced By:	Max Voltage	Max Peak Current
MC1XAZ01	1	Vertical-entry quick-disconnect	175	25
MC1XAZ01-HR	1	Side-entry screw terminal	L U,com	60

Toll Free Phone: 877-378-0240 Toll Free Fax: 877-378-0249

sales@servo2go.com www.servo2a









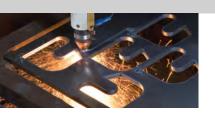




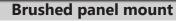












Panel Mount Drives

These analog brushed drives are enclosed by a metal cover and can be mounted on their spine or flat against the base.

Command Types

- ±10V Analog
- Direct PWM and Direction

100A40

Potentiometers

- Loop Gain
- Current Limit
- Reference Gain
- Offset/Test Signal

Power Range

- 0.6 38kW Peak Power Output
- 0.3 19kW Cont. Power Output

Primary Feedback

Tachometer

Modes of Operation (±10V Analog)

- Current
- Voltage
- IR Compensation
- Velocity

Modes of Operation (PWM and Dir)

Direct PWM Current Mode



To select a model number, choose a series based on the command type, then find a model that matches your system's power requirements.



Brushed ±10V Analog Command Models						
	Supply (VAC)	Supply (VDC)	Peak Current (A)	Cont. Current (A)	Dimensions (mm)	
12A8	-	20-80	12	6	129 x 76 x 25	
25A8	-	20-80	25	12.5	129 x 76 x 25	
30A8	-	20-80	30	15	187 x 112 x 25	
50A8	-	20-80	50	25	187 x 112 x 25	
120A10	-	20-80	120	60	254 x 130 x 49	
16A20AC	30-125	40-190	16	8	187 x 107 x 62	
20A20	-	40-190	20	10	129 x 76 x 25	
25A20I	-	40-190	25	12.5	187 x 112 x 25	
30A20AC	30-125	40-190	30	15	187 x 107 x 62	
50A20I	_	40-190	50	25	187 x 112 x 25	

Brushed PWM and Direction Command Models							
	Supply (VAC)	Supply (VDC)	Peak Current (A)	Cont. Current (A)	Dimensions (mm)		
30A8DD	-	20-80	30	15	187 x 112 x 25		
50A8DD	-	20-80	50	25	187 x 112 x 25		
25A20DD	-	40-190	25	12.5	187 x 112 x 25		
50A20DD	-	40-190	50	25	187 x 112 x 25		







c**₹**us (€ RoHS



50

235 x 183 x 92

Toll Free Phone: 877-378-0240 Toll Free Fax: 877-378-0249



100

80-400

S series - Sinusoidal commutation drives

Panel Mount Drives

Command Types

• 120° Sine

These sinusoidal drives are enclosed by a metal cover and can be mounted on their spine or flat against the base.

Power Range

controller that correspond to the motor phase currents and control the commutation and torque to the motor.

- 1.2 38kW Peak Power Output
- 0.6 19kW Cont. Power Output

S series drives are the only analog drives offered by ADVANCED Motion Controls with sinusoidal commutation (all digital DigiFlex® Performance™ models use sinusoidal commutation). S series drives require two specialized sinusoidal command signals from an external

Mode of Operation

Current











'S' Series Models						
	Supply (VAC)	Supply (VDC)	Peak Current (A)	Cont. Current (A)	Dimensions (mm)	
S16A8	-	20-80	16	8	129 x 78 x 39	
SX25A20	-	60-190	25	12.5	187 x 112 x 37	
S30A40	-	60-400	30	15	203 x 143 x 41	
S30A40AC	45-270	60-380	30	15	203 x 166 x 103	
S60A40	-	60-400	60	30	235 x 160 x 89	
S60A40AC	45-270	60-380	60	30	235 x 162 x 155	
S100A40	-	60-400	100	50	271 x 234 x 92	

All motor feedback is returned to the controller. which tracks the motor rotor position and outputs the correct signals to the drive in order to maintain the proper phase angle.

















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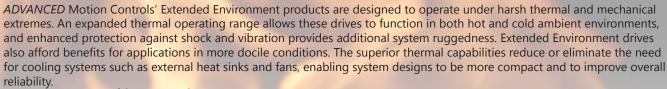
Extended Environment Servo Drives

ANALOG DIGITAL









- Ambient operating temperatures ranging from -40°C to 85°C (-45°F to 185°F)
- Over Temperature heat sink protection up to 105°C (221°F)
- Thermal rise cycling in about 2 minutes
- Shock up to 15g's at 11ms
- Vibration up to 30grms on all 3 axes
- Standard models in PCB Mount (Z-Drives) form factor - Panel Mount models available as custom designs
- Designed to assist system compliance toward:
 - » MIL-STD-810F: temperature, thermal shock, humidity, altitude, shock & vibration
 - » MIL-STD-1275D: characterization of 28VDC systems
 - » MIL-STD-461E: control of electromagnetic interference
 - » MIL-STD-704F: aircraft power characteristics
 - Sold & Serviced By:

 » MIL-HDBK-2

 predictions/0

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- Tested to encetratione standards 40 upon customer request 378-0249

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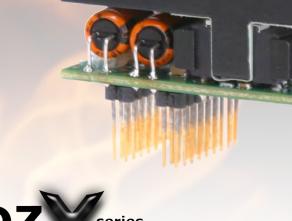






Extended Environment Servo Drives





- » User selected I/O and Event Handling
- » Configurable limits & gains
- » Distributed network control
- » Comprehensive diagnostics

AZ

- » Highest bandwidth possible
- » Dedicated operating modes
- » Highest operating temperature
- » Simplest installed platform

Sold & Serviced By:

SERVO2GO.com

-40°C AZX/DZX Series Toll Free Phone: 877-378-0240
Toll Free Fax: 877-378-0249

+75°C DZX Series +85°C AZX Series +100°C and higher!
Custom Drives

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MOTION CONTROLS





CANOPEN

RS-485/232 **SERIAL**















DZX series - Extended Environment digital pcb mount

Z-Drives Plug-In Integration

DZX drives are packaged in a lightweight and compact form factor designed to be embedded directly into a PCB - no wires required! Inverted baseplate mounting also allows for direct wired connector access. A common footprint is used for the different power modules in the series to simplify prototyping.

Communication

- CANopen or RS485/232 Networking
- RS232 Drive Commissioning

Command Types

- Over the Network
- ±10V Analog
- 5V Step and Direction
- PWM and Direction
- Encoder Following
- Indexina
- Jogging

Power Range

- 0.6 3kW Peak Power Output
- 0.3 1.5kW Cont. Power Output

Extended Environment

- -40°C to +75°C Ambient Operating Range
- Shock up to 15g's
- Designed to Environmental Engineering Considerations as defined in MIL-STD-810F

Primary Feedback

Incremental Encoder

Auxiliary Feedback

- Hall Sensors
- · Aux. Incremental Encoder
- Tachometer

To build a model number, select a control module based on network communication type, then combine with a power module to meet your system's requirements.



DZX Control Modules					
	DZXCANTE-	DZXRALTE-			
Network	CANopen	RS485/232			
DC Power Modules					

Example: DZXCANTE-040L080

	008L080	015L080	040L080
Supply (VDC)	10-80	10-80	10-80
Peak Current (A)	8	15	40
Cont. Current (A)	4	7.5	20
Dimensions (mm)	64 x 51 x 24	64 x 51 x 24	76 x 51 x 23

ADVANCED Motion Controls offers mounting cards to simplify the connections between DZX drives and external system hardware (motors, feedback devices, controllers). These mounting cards are ideal for the prototyping and development stages as well as implementation into the final system design.

Mounting	Cards*

	Axes	Motor/Power Connector	Max Voltage	Max Peak Current
MC1XDZx02	1	Sold & Serviced By: Side-entry screw lerminal	175	40
MC1XDZx02-QD	1	SER GOROM	175	25
MC1XDZx02-HP1	1	Side-entry screw terminal Toll Free Phone: 877-378-0240	80	60

*Replace "x" in the model number with "C" for DZXCANTE drives or "R" for DZXRALTE drives IOII F166 Fax: 877-378-0249



Mating Connector Kit

as a kit using ADVANCED Motion Controls' part number

AZX series - Extended Environment analog pcb mount

Z-Drives Plug-In Integration

AZX drives are packaged in a lightweight and compact form factor designed to be embedded directly into a PCB - no wires required! Inverted baseplate mounting also allows for direct wired connector access. A common footprint is used for the different power modules in the series to simplify prototyping.

Command Types

- ±10V Analog
- PWM and Direction (Torque Mode)

to meet your system's requirements.

Modes of Operation

- Current
- Encoder Velocity
- Hall Velocity
- Duty Cycle (Open Loop)
- Torque Mode PWM

Extended Environment

- -40°C to +85°C Ambient Operating Range
- Shock up to 15g's
- Designed to Environmental Engineering Considerations as defined in MIL-STD-810F

AZXBE...

Encoder Velocity

Duty Cycle

Primary Feedback

- Hall Sensors
- Incremental Encoder
- Tachometer

Potentiometers

- Loop Gain
- Offset

Power Range

0.6 - 1.9kW Peak Power Output

AZXBDC...

Torque Mode PWM

• 0.3 - 1.0kW Cont. Power Output

To build a model number, select a control module based on the desired mode of operation, then combine with a power module

AZXBH...

Hall Velocity

Duty Cycle









AZX Control Modules

Operating Mode DC Power Modules

Examples: AZXB8A8 AZXBDC15A8

De l'ower modules				
	8A8	15A8	25A8	
Supply (VDC)	10-80	10-80	10-80	
Peak Current (A)	8	15	25	
Cont. Current (A)	4	7.5	12.5	
Dimensions (mm)	64 x 51 x 23	64 x 51 x 23	76 x 51 x 23	

AZXB...

Current

ADVANCED Motion Controls offers mounting cards to simplify the connections between AZX drives and external system hardware (motors, feedback devices, controllers). These mounting cards are ideal for the prototyping and development stages as well as implementation into the final system design.

Mounting Cards			
	Axes	Motor/Power Connector Max SERVO Gigeom	Max Peak Current
MC1XAZ01	1	Vertical-entry quick-disconnect 175	25
MC1XAZ01-HR	1	Toll Free Phone: 877-378-0240 Side-entry screw terminal Toll Free Fax: 877-378-0249	60
		sales@servo2go.com www.servo2go.com MOTION Co	VCED
		www.servo2g	ONTROLS

















M/V™ Series Vehicle Mount Motor Controllers

ADVANCED Motion Controls' family of M/V™ series vehicle mount motor controllers are fully functional, four-quadrant servo drives purpose designed and built to operate today's modern mobile electric vehicular platforms. Available in both analog and digital versions and packaged in a compact and rugged IP65 case, M/V series motor controllers provide high power from battery supplies for either permanent magnet brushed or brushless motors. Whether for traction / propulsion, steering, lifting, or any other electrically driven actuation, the unmatched power density, high efficiency, low weight, built-in regen, and cool thermal operation of M/V series motor controllers provide optimum performance for mobile electric vehicular applications.

- Analog (AVB, AB) and Digital (DVC) models provide solutions for a wide range of command, configuration, and network options
- Selectable throttle command inputs: 0-5V or 0-5k Ω
- Standard and vehicle-specific I/O for over 60 events and signals
- Compact, Rugged, Vehicle Mount Design -IP65 Rating
- Watertight I/O, signal, and feedback connector
- Watertight access panel for drive configuration and setup
- Selectable modes of operation
- DVC models configurable through DriveWare® 7, offering the same capabilities range of DigiFlex®
 Performance™ digital servo drives
- AVB and AB models configurable through DIP Switches and potentiometers





Toll Free Fax: 877-378-024



M/VTM SERIES MOTOR CONTROLLERS



Throttle Command Inputs

M/V series motor controllers are configurable for a variety of different throttle command types common in electric vehicular applications. Each command type is user-selectable as standard single-ended, inverse single-ended, wigwag, or inverse wigwag.

0-5V Analog Voltage

On DVC and AVB models, an external 0 - 5 volt supply provides the command input source.

$0-5k\Omega$ Potentiometer

On DVC and AVB models, an external $5k\Omega$ potentiometer can be used in either a 3-wire or 2-wire configuration to provide the command source.

±10V Analog

On DVC and AB models, an external or on-board ±10 volt supply provides the command input source.

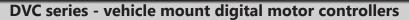
Vehicle Specific I/O

M/V series motor controllers feature unique programmable and dedicated inputs and outputs designed with mobile electric vehicular applications in mind.

- Key Switch / Main Contactor Operation
- Electromagnetic Holding Brake Output
- Speed Limit Input
- Reduced Speed Reverse
- Forward / Reverse Impurtised By:
- "Push" (Neutral) Input
- Horn / Reverse AlariSERVO GO.com

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MOTION CONTROLS







Vehicle Mount Drives

M/V[™] drives are packaged in an IP65 ruggedized enclosure designed for mounting in electric vehicles.

Communication

- CANopen Networking
- USB Drive Commissioning

Power Range

- 12.8 20.8 kW Peak Power Output
- 7.7 16.6 kW Cont. Power Output

Command Types

- Over the Network
- ±10V Analog
- Indexing
- Jogging

Primary Feedback

Incremental Encoder

Auxiliary Feedback

- Hall Sensors
- Tachometer

Combine to

form model

number

Electric Mobility and Vehicle I/O

- Electromagnetic Holding Brake Output
- Foward and Reverse Inputs
- Push Brake Release Input
- Speed Limit Pot Input
- Reduced Speed Reverse Input

To build a model number combine the DVC control module with a power module to meet your system's requirements.

Safe Torque Off Inputs

M/V[™] series









DVC...

Network

CANopen

DC Power Modules

Examples:
DVC250A060

	250A060	200A100	125A200	100C200
Supply (VDC)	20-54	20-80	40-175	40-175
Peak Current (A)	250	200	125	100
Cont. Current (A)	150	125	80	100
Dimensions (mm)	203 x 140 x 60			

Vehicle Throttle Commands

On DVC models, the command input type is selected through DriveWare:

- Wigwag/Single-Ended Command Input
- 3-Wire / 2-Wire External **Potentiometer Command Source**
- Standard / Inverted Inputs
- Reduced Speed Reverse

Safe Torque Off

DVC models feature dedicated Safe Torque Off (STO) inputs that prevent any currentgenerating energy from reaching the motor. Functional Safety STO meets SIL 3 per IEC 61800-5-2; tested by NRTL.



Toll Free Phone: 877-378-0240 Toll Free Fax: 877-378-0249

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Mating connector housing, socket contacts, and

seal plugs can be ordered as a kit using ADVANCED

Motion Controls' part number KC-35AMPSEAL01.

Mating Connector Kit



AVB/AB series - vehicle mount analog motor controllers

Vehicle Mount Drives

M/V[™] drives are packaged in an IP65 ruggedized enclosure designed for mounting in electric vehicles.

Command Types

- ±10V Analog
- \circ 0-5k Ω Potentiometer

Combine to form model number

0-5V Analog

Power Range

- 12.8 20.8 kW Peak Power Output
- 7.7 16.6 kW Cont. Power Output

Potentiometers

- Loop Gain
- Current Limit
- · Reference Gain
- Offset/Test Signal
- · Ramp Time
- Deadband

- Current
- Voltage
- Duty Cycle (Open Loop)

Modes of Operation

Primary Feedback

Incremental Encoder

Hall Sensors

Tachometer

• IR Compensation



Forward and Reverse Inputs Velocity • Push Brake Release Inputs Hall Velocity Speed Limit Pot Input

To build a model number, select a control module based on the application category, then combine with a power module to meet your system's requirements.

KeySwitch Master Input

Electric Mobility and Vehicle I/O Electromagnetic Holding Brake Output











M/V™ Analog Control Modules

	AB	
Applications	Electric Mobility and Vehicle	General Industrial

DC Power Modules

Examples: AVB250A060 AB125A200

	250A060	200A100	125A200	100C200
Supply (VDC)	20-54	20-80	40-175	40-175
Peak Current (A)	250	200	125	100
Cont. Current (A)	150	125	80	100
Dimensions (mm)	203 x 140 x 60			

Vehicle Throttle Commands

On AVB models, DIP switches are used to select the command input type:

- Wigwag/Single-Ended Command Input
- 3-Wire / 2-Wire External Potentiometer Command Source
- Standard / Inverted Inputs
- Half Speed Reverse

Mating Connector Kit

Mating connector housing, socket contacts, and seal plugs can be ordered as a kit using ADVANCED Motion Controls' part number KC-23AMPSEAL01.









Custom Servo Drive Capabilities

ADVANCED Motion Controls has the capability to promptly develop and deliver specified products for OEMs with volume requests. Our Applications and Engineering Departments will work closely with your design team through all stages of development in order to provide the best servo drive solution for your system.

Equipped with on-site engineering and manufacturing for guick-turn customs capabilities, ADVANCED Motion Controls utilizes our years of expertise to decrease your costs and time-to-market while increasing system quality and reliability.









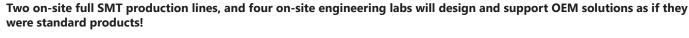












ADVANCED Motion Controls has extensive experience in designing affordable custom products optimized for OEM's specific needs. Whether a simple modification to a standard product or a completely custom design, we can support and sell custom solutions as if they were standard products.

Examples of Customized Products and Options

- Optimized Footprint
- Private Label Software
- OEM Specified Connectors
- No Outer Case
- Increased Current Resolution
- Increased Temperature Range
- Custom Control Interface
- Integrated System I/O

- Tailored Project File
- Silkscreen Branding
- Optimized Base Plate
- Increased Current Limits
- Increased Voltage Range
- Conformal Coating
- Multi-Axis Configurations
- Reduced Profile Size and Weight



Toll Free Phone: 877-378-0240 Toll Free Fax: 877-378-0249

sales@servo2go.com









manufacturing, testing, and support of all products.

Custom products are built on the same equipment and with the same people as if they were production units, enabling rapid development and fast delivery, as well as making it easy to make changes before the product is released to production.









Advantages to a custom solution with *ADVANCED* Motion Controls:

- Reduce project development time and cost
- Simplify integration of motor, controller, power supply, feedback
- Precisely match sizing requirements







Sold & Serviced By:

Feeling GU. Applications Engineering department for more information on custom solutions!

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Partnering with ADVANCED Motion Controls

- » Superior performance and product offering
- » Fast delivery to meet your needs
- » Worldwide factory trained technical and sales support
- » Engineering support available to you on-site
- » Close collaboration with, and an extension of, your engineering team
- » Diverse industrial experiences and knowledge allows us to improve your systems
- » Proud of providing you with the most optimized solutions
- » Passionate about your success

Providing motion control solutions to OEMs is our focus...

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Everything's possible

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