Applied Motion Products, Inc.
404 Westridge Dr.
Watsonville, CA 95076, USA

1-800-525-1609
Tel (831) 761-6555
Fax (831) 761-6544

Product Datasheet
www.Applied-Motion.com

BLuDC4-S

Digital Servo Drive

1pc. - $350.00
50pc. - $262.50



Product **Features**

- *P&D, torque mode. velocity mode*
- *7 digital inputs, 3 digital outputs, all optically isolated*
- *2 analog inputs, +/-10 volt range*
- *32 Axis multi-drop capability*
- *compatible with external motion controllers*
- *RS232 cable and all mating connectors are included*
- *Sinusoidal Commutation*
- *Compact Size*

Description

The BLuDC series servo drives are suitable for a wide range of motion applications. They are built around a powerful digital signal processor coupled to an efficient MOSFET PWM amplifier. The BLuDC drives include up to 22 optically isolated I/O points plus analog inputs. A sophisticated, yet easy to tune position loop has independent digital settings for proportional, integral and derivative gains plus velocity feedback and velocity and acceleration feedforward.

All BLuDC drives are capable of running brushless, brushed, and linear servo motors. A timing wizard automatically configures the encoder and commutation timing for virtually any brushless or brushed DC motor. Tuning is easy with our Quick Tuner™ software, featuring a built-in digital oscilloscope

Specifications

Model Number	BLuDC4-S
Part Number	5000-090
Supply Voltage	24-48 VDC
Supply Voltage Type	DC
Control Modes	• Step & Direction • Analog Torque / Velocity • Streaming Commands • SiNet Hub Compatible
Output Current, Continuous	4.5 A rms
Output Current, Peak	13.5 A rms
Communication Ports	• RS-232 • RS-485
Feedback	Halls + Incremental encoder
Setup Method	Software setup
Digital Inputs	7
Digital Outputs	3
Analog Inputs	1 differential or 2 single-ended, +/-10volts, 13bits differential
Dimensions	4.60 x 2.75 x 0.85 (w/ standoffs) inches
Weight	3.1 oz
Operating Temperature Range	NA
Ambient Temperature Range	0 to 40 °C
Ambient Humidity	90% max, non-condensing
Status LEDs	1 red, 1 green
Circuit Protection	• Short circuit • Over-voltage • Under-voltage • Over-temp

Software

Software Downloads	• DSP Firmware Downloader • Quick Tuner™ • SCL Utility
Sample Code	• scldemo.zip

Downloads

Manuals	BLUDC-S,Q_Hardware_Manual.pdf Host_Command_Reference.pdf
Datasheet	BLuDC_Datasheet.pdf
2D Drawing	BLuDC4.pdf BLuDC4_noIO_3D.pdf
3D Drawing	BLuDC4_no ExtIO.igs
Speed-Torque Curves	There are currently no Speed-Torque Curves documents available for this product.
Agency Approvals	There are no related agency approval documents at this time.
Application Notes	APPN0018_EZ-Series-Touchpanel-HMI.zip APPN0017_Wiring-integral-holding-brakes.pdf APPN0016_Simple-25-pin-mating-connections.pdf APPN0015_Make-a-serial-programming-cable.pdf

Pricing

	BLuDC4-S Part No. 5000-090
1pc.	$350.00
25pc.	$301.00
50pc.	$262.50
100pc.	Contact us for 100+ piece pricing.