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INDUSTRIAL PRODUCT DATASHEET

RobStride 04 QDD 120N.m integrated actuator module

The RobStride 04 QDD 120N.m integrated actuator module is a lightweight 1420g four-in-one unit delivering 120 N.m peak torque with dual magnetic encoders and 15-60V compatibility for robotics, consumer products, and...

SKU	UPDATED	PRICE
100049824	2026-09-15 11:27:07	$255.00(Excl. VAT)



Overview

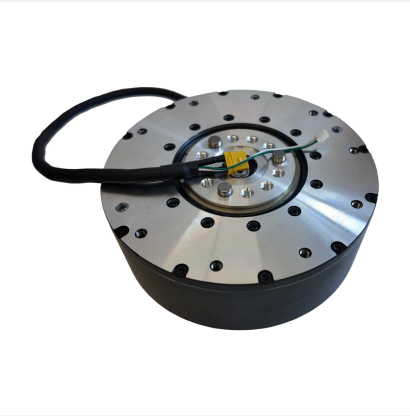


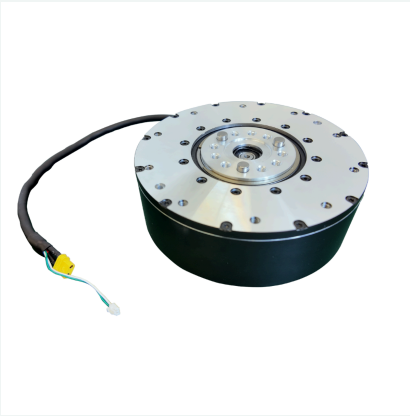
The RobStride 04 QDD 120N.m integrated actuator module features a four-in-one design integrating driver, motor, planetary reducer, and dual magnetic encoders in a lightweight 1420g package. It delivers 120 N.m peak torque with a 9:1 reduction ratio (85.71 N.m/kg torque density), supports 15-60V input range (Rated 48V), and comes with debugging software, modules, and sample programs for robotics, consumer products, and automation control applications.

Key Features

- Highly-integrated Features a four-in-one design integrating driver, motor, planetary reducer, and dual magnetic encoders in a lightweight 1420g package.
- High Torque Density Delivers 120 N.m peak torque with a 9:1 reduction ratio, achieving a torque density of 85.71 N.m/kg.
- Dual Encoder Equipped with dual magnetic encoders for high-precision position feedback.
- Wide Voltage Compatibility Supports 15-60V input range (Rated 48V), optimized for modern battery-powered robots.
- Convenient Development Comes with comprehensive debugging software, modules, and sample programs for easy development.
- Versatile Applications Suitable for robotics, consumer products, and automation control applications.

Product Gallery









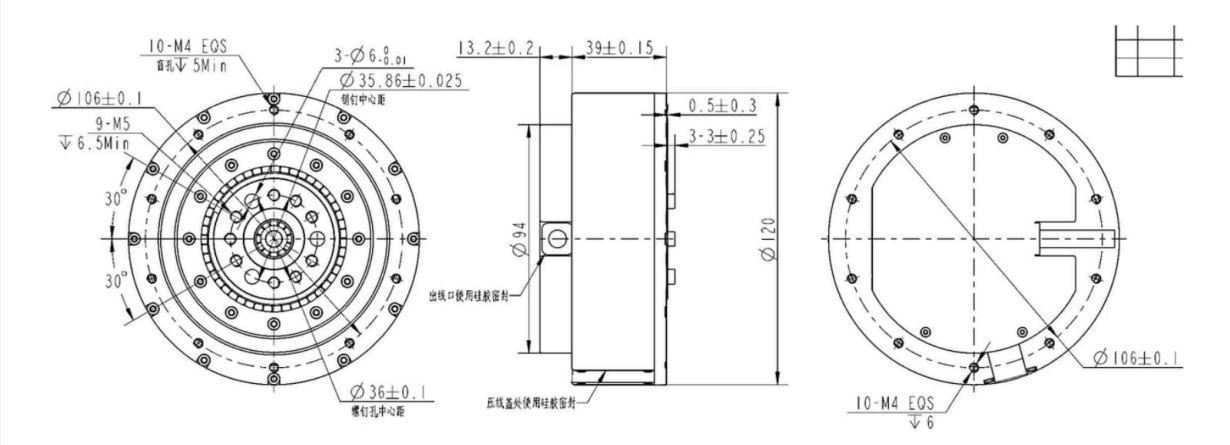


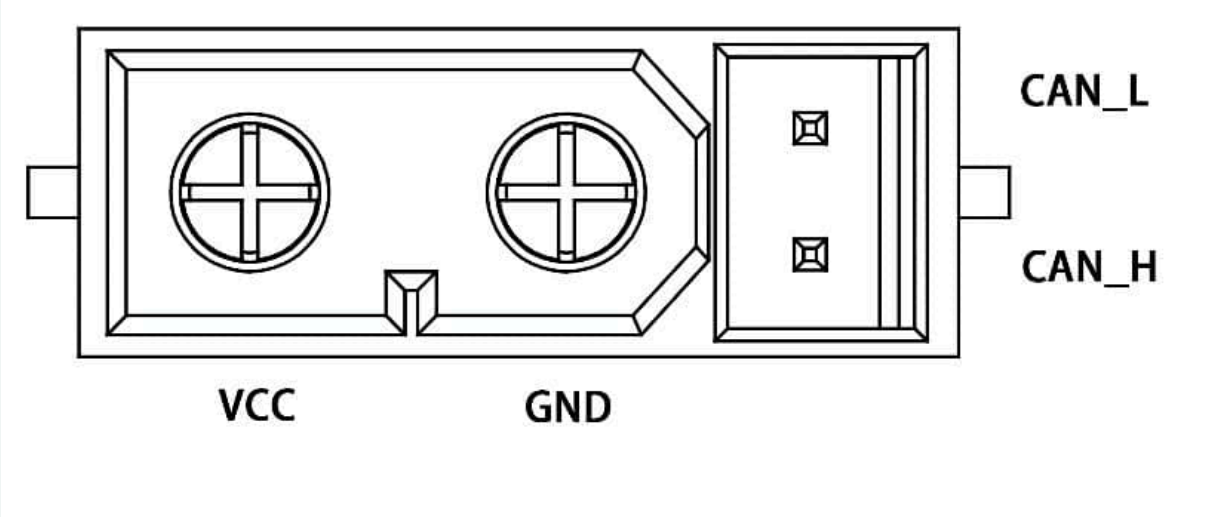
Specification

Item	Specification
Product	RobStride 04 Motor
Voltage Range	15-60V (Rated 48V)

Operating Temperature	-20℃~50℃
Operating Humidity	5%~85%
Storage Temperature	-30℃~70℃
Mechanical Dimension	120mm x 120mm x 56mm
Communication Interface	CAN (1Mbps)
Gear Ratio	9:1
Rated Output Power	700W ± 10%
Rated Torque	40 Nm
Peak Torque	120 Nm
Poles	42
Phases	3
Driver Method	FOC
Encoder	Magnetic Encoder x 2
Encoder Resolution	14bit
Weight	1420g ± 20g
Protection Level	IP52 (Supporting customize IP67)
Terminal Interface	XT30 + GH1.25

Hardware Overview





Part List

RobStride 04 Motor	x1
XT30(2+2) Cable	x1

Compliance & Logistics



HSCODE	8501310000
USHSCODE	8501316000
UPC	
EUHSCODE	8501109390
COO	CHINA

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy.

If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Resource Links

- https://www.seeedstudio.com/Robostride-04-Actuator-p-6775.html
- Datasheet
- 3D model
- wiki

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