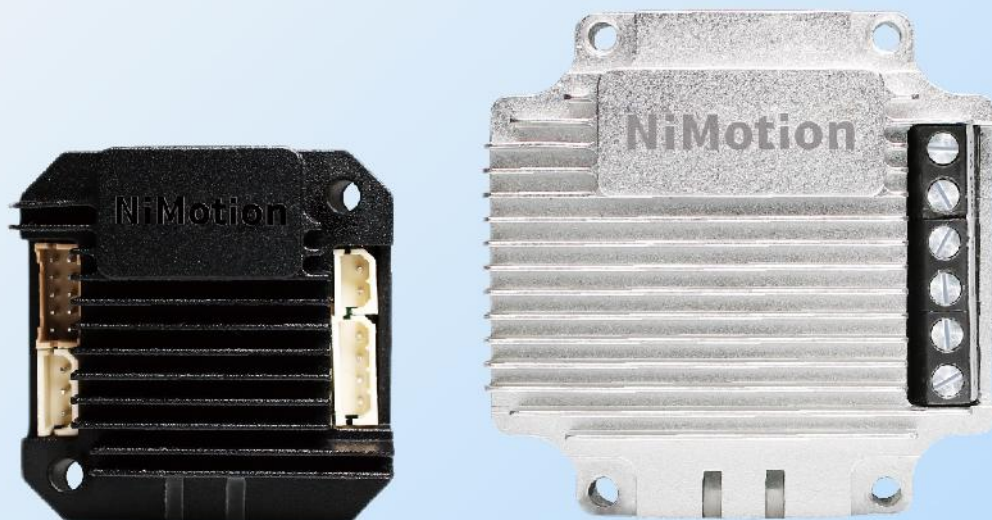




SDM BUS DRIVE HANDBOOK ▶▶

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COMPANY PROFILE



Beijing NiMotion Control Technology Co., Ltd. (hereinafter referred to as "Beijing NiMotion") was founded in 2015. It is a national high-tech enterprise specialized in the R&D, production, sales, and service of motion control systems and related auxiliary products. Its headquarters is located in Daxing District, Beijing.

Nanjing NiMotion Robot Co., Ltd. (hereinafter referred to as "Nanjing NiMotion") is an affiliated enterprise under the NiMotion brand. Beijing NiMotion and Nanjing NiMotion operate under unified technology, unified products, and unified services.

The company's product portfolio includes intelligent controllers, industrial software, integrated stepper motors, integrated servo motors, integrated brushless motors, transmission components, industrial robots, and a full range of other motion control products..

AWARDS & RECOGNITION



NiMotion has been successively recognized as a "Specialized, Refined, Distinctive, and Innovative" (SRDI) small and medium-sized enterprise in Beijing, a national high-tech enterprise, and a pilot unit for intellectual property rights, holding over 70 independent intellectual property rights. The company has obtained ISO 9001 quality management system certification, and its products have received the German TUV CE certification. With strict quality control and a comprehensive product portfolio, NiMotion has formed a strong competitive edge in the industry.

BUSINESS & SALES



Currently, NiMotion's business covers multiple sectors including medical automation, intelligent manufacturing, semiconductors, mobile robotics, warehousing and logistics, new energy, smart retail, and automotive industries. Its products are widely used in various types of automation equipment, exported to over 30 countries worldwide, and have provided professional solutions and technical services to more than 2,000 domestic enterprises.

32 + Countries Served

2000 + Core Clients

5000 + Applications

VISION & VALUES

NiMotion Corporate Culture: Driving Intelligent Innovation

At NiMotion, we believe technology should empower progress. Our culture is built on a shared passion for innovation, excellence, and human-centric solutions—bridging cutting-edge automation with real-world impact.

Corporate Vision

"Make machines more intelligent to better serve humanity."

In an era of rapid technological advancement, smart devices are no longer optional—they're essential. We relentlessly innovate to meet rising demands for smarter, faster, and more intuitive machines, ensuring technology evolves with and for people.

Corporate Mission

"Deliver professional motion control platforms & automation solutions."

Backed by years of industrial automation expertise, our dynamic, young team combines technical mastery with bold creativity. From R&D to real-world applications, we craft precision-driven, efficient products that redefine industry standards.

Core Values

Professionalism | Efficiency | Integrity
Dedication | Innovation | Growth
Pragmatism | Collaboration | Win-Win

Working Principles

User First – Your needs drive our designs.
Continuous Innovation – Breaking boundaries daily.
Pursuit of Excellence – Good isn't enough; we aim for flawless.

FACILITIES & DELIVERY

Warehouse & Material Management

Automated Storage Systems: Equipped with barcode/RFID tracking for real-time inventory visibility.
Strict Quality Checks: All incoming materials undergo 3-step inspections to guarantee compliance.
Lean Inventory Control: Optimized stock levels to reduce waste while ensuring fast turnaround.

Fast & Reliable Shipping

Global Partnerships: Collaborations with DHL, FedEx, and leading freight forwarders for air, sea & land transport.
Express Options: Expedited shipping available for urgent orders, with door-to-door tracking.

24/7 Security Monitoring: Fireproof cabinets, humidity control, and AI-powered surveillance.

Why Choose NiMotion?

Faster lead times with streamcabled workflows
Zero-defect mindset from storage to shipment
Scalable solutions for bulk/custom orders

SDM Bus Stepper Driver

The SDM series communication driver is a motor driver product independently developed by our company. This driver is a bus driver that can be flexibly configured according to the motor's rated current and controlled via the bus. It supports efficient functions such as origin setting, online upgrades, parameter identification, diagnostic alarms, stall detection, and multiple control modes. It features a compact size and simple wiring.

SDM4203 Driver

The SDM4203 series driver products are independently developed by our company. They support bus control and have a maximum peak current of 4A. They can be flexibly configured according to the rated current of the motor and controlled through bus communication. It supports various servo functions, such as origin setting, online upgrade, parameter identification, diagnostic alarm, stall detection, and multiple control modes. This product has the characteristics of small size and simple wiring.

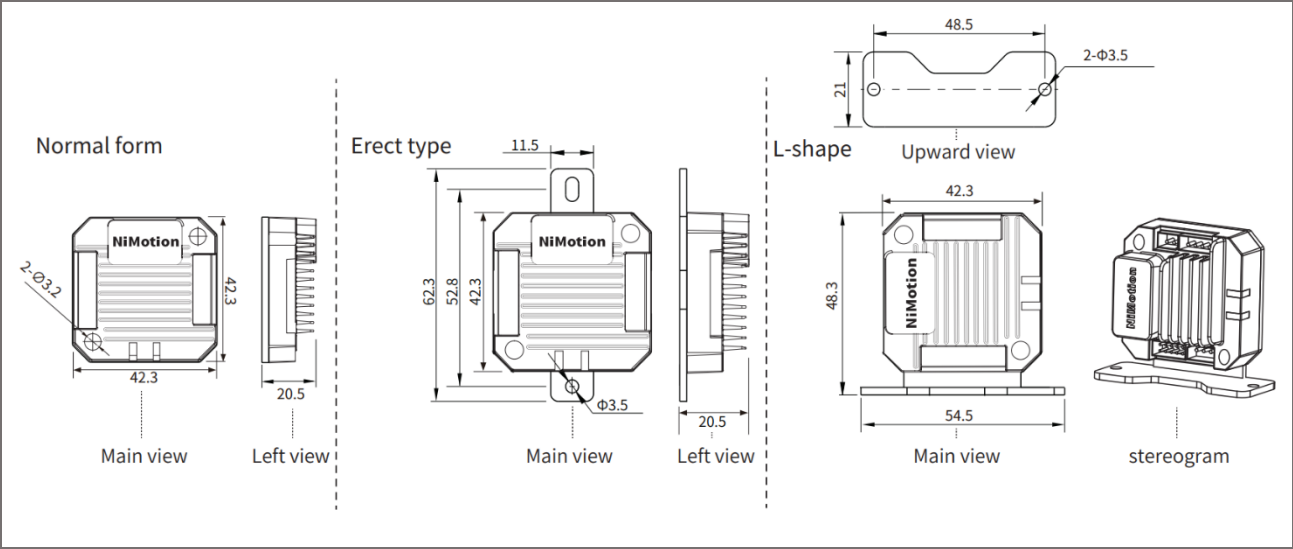


Technical specifications

Specification	Details
Input Voltage	12-30VDC
Rated Voltage	24VDC
Current	Vector control (FOC), max peak 4A, flexibly configurable based on motor rated current
Communication	Optional CAN/CANopen, RS-485, communication methods
Microstepping	1, 2, 4, 8, 16 microsteps, software configurable
Control Modes	Position mode, velocity mode, homing mode
Digital I/O	Configurable 5 digital inputs, 2 digital outputs; High level: 3VDC-3.3VDC, Low level: 0VDC-0.5VDC
Environment	Operating temperature: 0°C-40°C; Operating humidity: 10%RH-85%RH non-condensing;
	Storage temperature: -40°C-85°C; Storage humidity: 5%RH-95%RH non-condensing;
	Pollution degree: SO ₂ <0.5ppm/H ₂ S <0.1ppm; Altitude: <3000m
Mounting Backplate	Supports three backplate types (standard, vertical, L-type)

Drawing Dimensions

Unit of size: mm



SDM5710 Driver

The SDM5710 series communication driver is a motor driver product independently developed by our company. This driver is a bus driver with a maximum peak current of 4A, which can be flexibly configured according to the motor's rated current and controlled via CANopen and RS485 buses. It supports efficient functions such as origin setting, online upgrades, parameter identification, diagnostic alarms, stall detection, and multiple control modes. It features a compact size and simple wiring

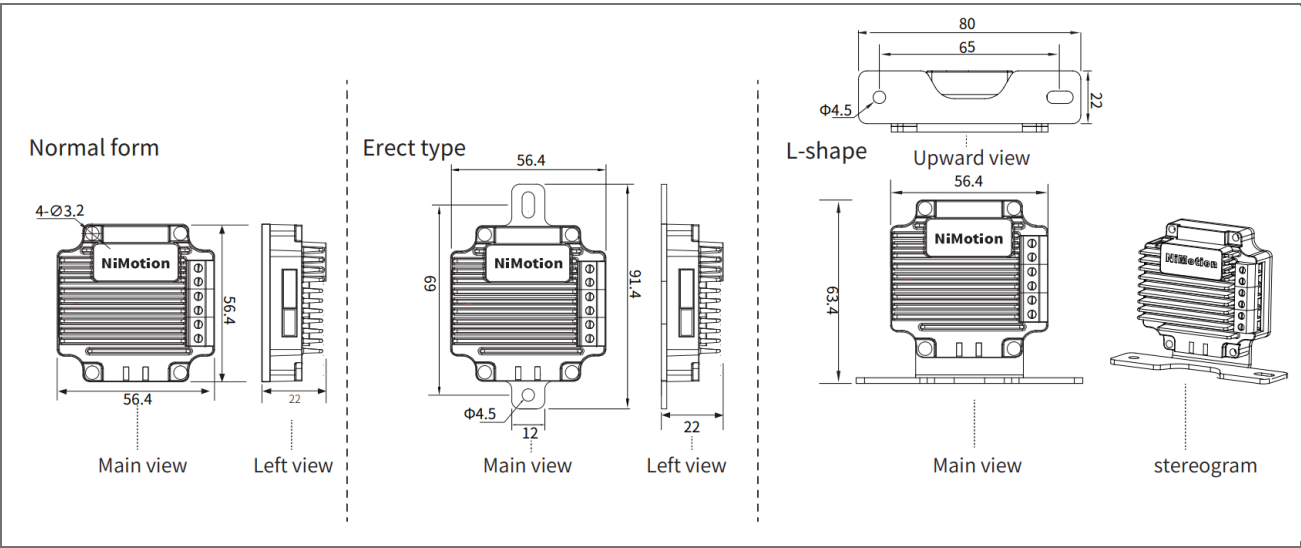


Technical specifications

Specification	Details
Input Voltage	10-48VDC
Current	Max peak 9.8A, flexibly configurable based on motor rated current
Communication	Optional CAN/CANopen, RS-485 communication methods
Micro stepping	1, 2, 4, 8, 16 micro steps, software configurable
Control Modes	Position mode, velocity mode, homing mode
Digital I/O	Configurable 5 digital inputs, 2 digital outputs; High level: 3VDC-3.3VDC, Low level: 0VDC-0.5VDC
Fault Alarms	Supports overvoltage, undervoltage, overtemperature, overcurrent protection, and self-diagnostic functions; Allows query of current and historical alarms
Environment	Operating temperature: 0°C-40°C; Operating humidity: 10%RH-85%RH non-condensing;
	Storage temperature: -40°C-85°C; Storage humidity: 5%RH-95%RH non-condensing;
	Pollution degree: SO ₂ <0.5ppm/H ₂ S <0.1ppm; Altitude: <1000m
Mounting Backplate	Supports three backplate types (standard, vertical, L-type)

Drawing Dimensions

Unit of size: mm





Beijing NiMotion Control Technology Co., Ltd.

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