

DRV2605L



Module DRV2605L Haptic Motor Driver

v1.0

2025-09-29

Rev. A

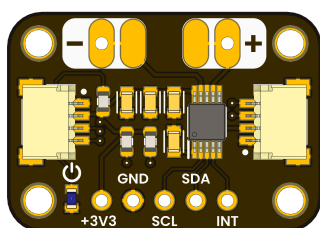
Professional electronic component

PRODUCT OVERVIEW

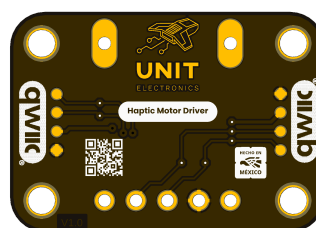
Professional electronic module designed for reliable performance and easy integration with modern development platforms.

PRODUCT VIEWS

TOP VIEW

*Component placement and connectors*

BOTTOM VIEW

*Underside components and connections*

KEY TECHNICAL SPECIFICATIONS


CONNECTIVITY

Interfaces:	I2C, SPI, UART, ADC
Connector:	QWIIC + Pin Headers

KEY FEATURES

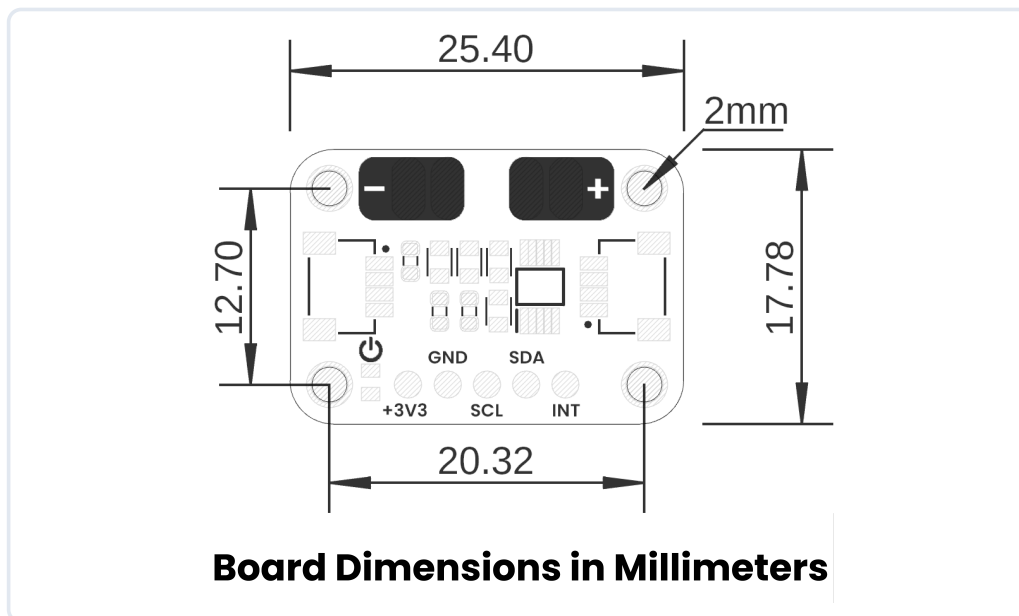
Microcontroller PY32F003L24D6TR (32-bit ARM Cortex-M0)	Clock Speed Internal Up to 24 MHz
ADC 12-bit ADC with multiple channels	Memory 16KB Flash, 2KB SRAM
SPI 1 channel	I2C 1 channel
UART 1 channel	

ADDITIONAL TECHNICAL INFORMATION

 OVERVIEW	
FEATURE	DESCRIPTION
Compatibility	Works seamlessly with Cockat Nova (SDCC Compiler), RP2040 and ESP32 (MicroPython)
Integrated Development Environments	Thonny IDE for MicroPython (ESP32 & RP2040), Visual Studio Code for Cockat Nova (SDCC)
Open Source	Hardware and software licensed under MIT

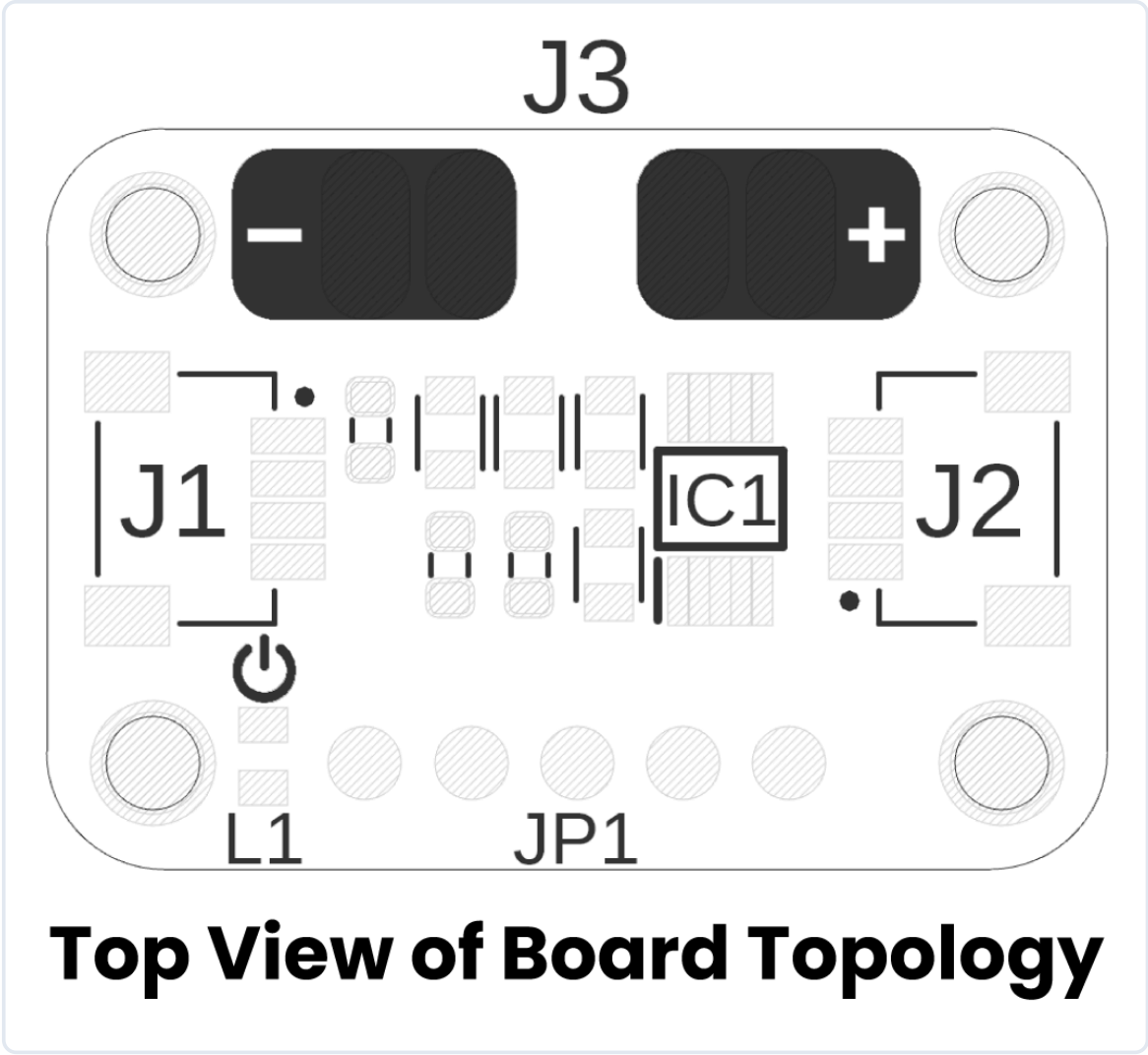
HARDWARE DOCUMENTATION

MECHANICAL DIMENSIONS



Physical dimensions and mounting specifications (measurements in millimeters)

SYSTEM TOPOLOGY



Connection topology and system integration diagram

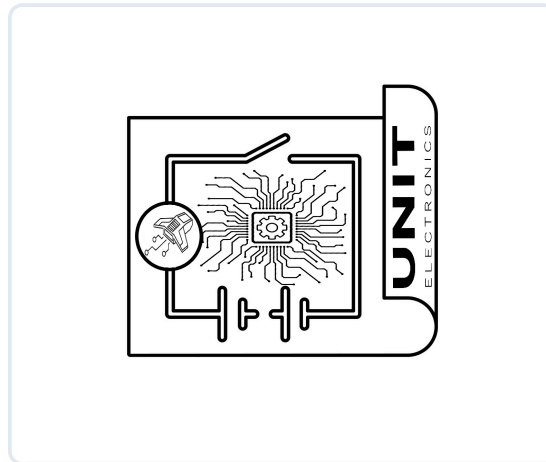
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COMPONENT REFERENCE

REF.	DESCRIPTION
IC1	DRV2605 Haptic Motor Driver
L1	Power On LED
J1	1mm JST Connector compatible with QWIIC and STEMMA QT Connector
J2	1mm JST Connector compatible with QWIIC and STEMMA QT Connector Jack
J3	Output for haptic motor
JP1	Header for Input Signals

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CIRCUIT SCHEMATIC



Complete circuit schematic showing all component connections

[View Complete Schematic PDF](#)

PIN DESCRIPTION

Detailed pin assignment and electrical specifications

SIGNAL DESCRIPTION

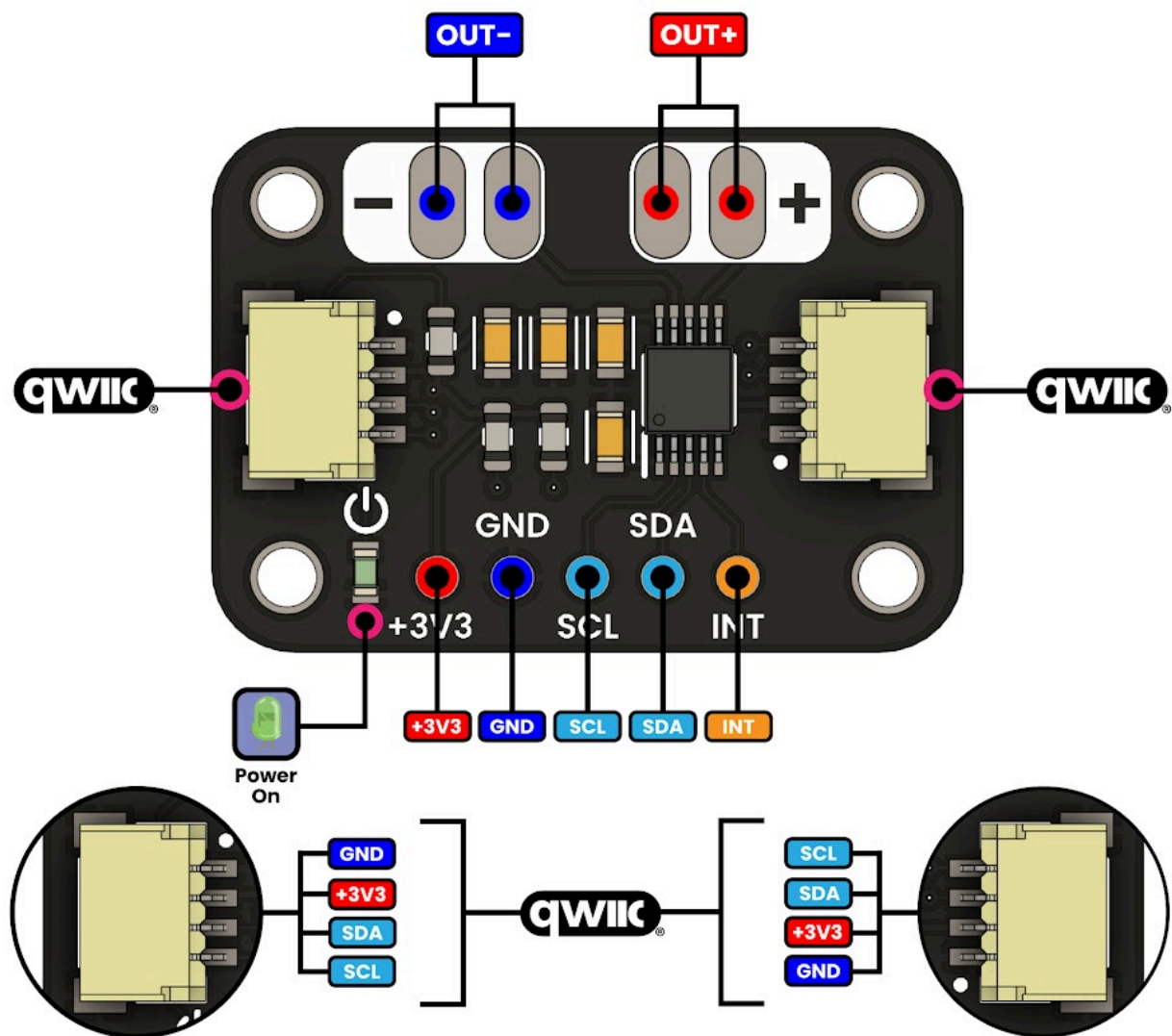
FUNCTION	NOTES
Power Supply	3.3V Power Supply
Ground	Common ground reference
I2C SCL	Serial Clock Line
I2C SDA	Serial Data Line
Power Supply	GPIO
Motor -	Motor negative output
Motor +	Motor positive output

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PIN CONFIGURATION LAYOUT

Physical connector layout and pin positioning

Haptic Motor Driver



Complete pin configuration diagram showing all connectors, pin assignments, and electrical connections for proper integration

HARDWARE SPECIFICATIONS


Complete technical documentation and specifications

BOARD DIMENSIONS

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[Dimensions](#)

BOARD TOPOLOGY


[Topology](#)

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