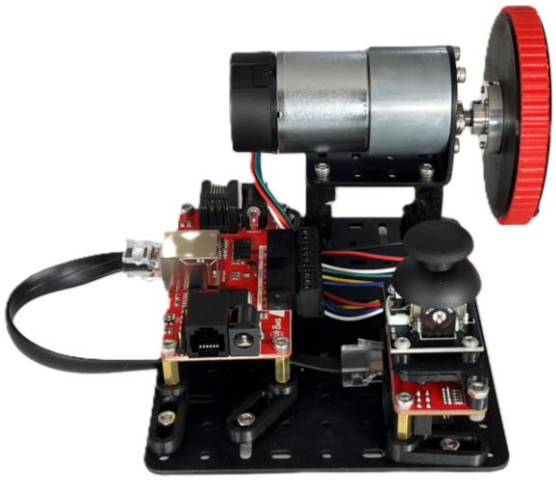
SMD Starter Kit
Technical Specifications

Revision Date: 08/2024



Introduction:

ACROME SMD Starter Kit is based on ACROME Smart Motion Devices RED Brushed DC Motor Control Unit, a brushed DC Motor, and a joystick module. It comes with a USB Gateway to communicate with the PC. Software and other controller options are available.

Purchase Options:

FEATURE / MODEL	SOFTWARE & COURSEWARE OPTIONS				
	Arduino® C (requires Arduino controller)	**Matlab / Simulink®** (requires RasPi controller]	**LabVIEW®** [PC]	**Python** [PC]	**(GUI)** [PC]
SMD Starter Kit	+	+	+	✓	✓

✓: Available as default

+: Optional hardware/software to purchase

General Information:

- SMD Starter Kit includes the mechanical plate, DC motor, flexible wheel, ACROME SMD modules for motor control, joystick input and USB gateway, connection cables, a 12Vdc power adapter and the software.
- System needs an external computer to operate. Unless requested explicitly from the customer, the external computer is not provided with the System.
- Multiple motors and different SMD Add-on sensors can be connected using the daisy-chain protocol of the SMD product line.

Software Specifications:

- The System comes with an Application Programming Interface (API) for Python to control all the modules.

ACROME ROBOTİK MEKATRONİK SİS. SAN. VE TİC. A.Ş
Katar Cad. Teknokent ARI 4 No: 2/50/6 Sarıyer/İstanbul
www.acrome.net

- System provides feedback to the software for its current position, velocity and torque (with current measurement).
- System uses USB as the default computer interface.
- API can be used with any OS through the USB interface.
- An optional GUI application is available. GUI runs on Windows 10/11 or Linux (Ubuntu distro is tested).

Hardware Specifications:

- Motor specifications:
  - Type: Brushed DC Motor
  - Max speed: 100 RPM
  - Max. Holding Torque: 0.2 Nm
  - Nominal supply voltage: 12V dc.
  - Max. current: 2.5A dc.
- Encoder specifications:
  - Type: Incremental encoder with direction
  - Resolution: 64 Pulse per Revolution
  - Signal Type: TTL
- The motor is driven by ACROME SMD RED module, with built-in H-bridge circuitry.

---------- THIS SECTION IS INTENTIONALLY LEFT BLANK ----------