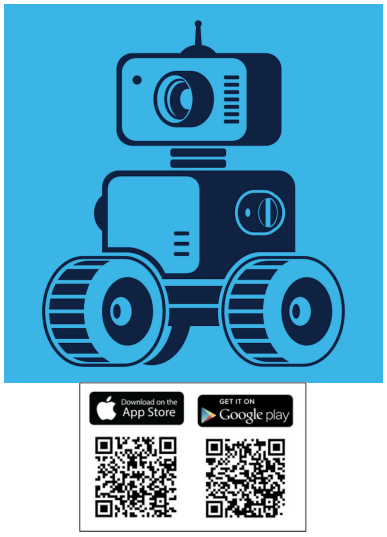
STRobotics

Data brief

Smartphone app for Android and iOS platforms



Product summary	
Smartphone app for Android and iOS platforms	STRobotics
Robotics evaluation kit	STEVAL-ROBKIT1
Applications	Factory automation Industrial robots

Features

- Scan, connect, and control Bluetooth® Low Energy based robotics kits
- Various options to control the speed and movement of the robotic car
- Virtual joystick interface with visual feedback
- Support for mecanum/omni-wheel and differential drive mechanisms
- Provides interoperability with other Bluetooth-based boards through BlueST-SDK integration
- Embedded debug console for sending direct commands and viewing log messages for troubleshooting
- Sensor data plotting feature
- Data logging with annotation for use in machine learning tools
- The app is available on Google Play Store and Apple App Store

Description

The STRobotics application for Android and iOS platforms enables users to configure and operate various robotic kits and boards from ST, such as the STEVAL-ROBKIT1 robotics evaluation kit.

This application facilitates the discovery, connection, and control of these robotic kits. It integrates the BlueST-SDK to ensure interoperability with various Bluetooth® Low Energy (BLE) offerings from ST.

The app is available for download on the Google Play Store and Apple App Store, providing easy access to ST robotics solutions.

Upon establishing a connection, the app identifies the available features on the connected robotics kits and displays the status of various subsystems. Users can select different operation modes (for example, remote control, follow me, and free-navigation) and configure parameters for each mode.

The app includes a user-friendly joystick interface for intuitive control of the robot's movement. Additionally, it offers features for plotting charts and logging real-time data from sensors.

A debug console is available for sending direct commands, viewing log messages, and troubleshooting.

The STRobotics application currently supports the STEVAL-ROBKIT1 robotics evaluation kit.

Revision history

Table 1. **Document revision history**

Date	Revision	Changes
17-Dec-2024	1	Initial release.

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