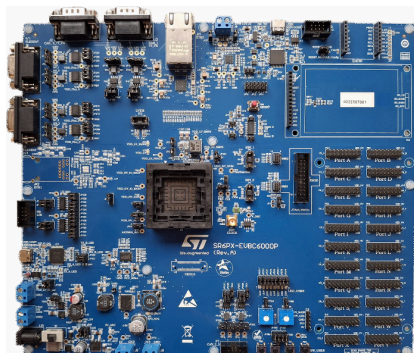


Stellar P lines BGA 476 evaluation board



Product status link

[SR6PX-EVBC6000P](#)

Product summary

Order code	SR6PX-EVBC6000P
Reference	SR6P6C6 evaluation board
Package	BGA 476

Features

- Socket based evaluation board for Stellar P series automotive MCU in BGA 476 package
- Selectable clock source:
 - 40 MHz crystal main oscillator
 - 8 MHz oscillator
 - Clock input through SMA connector
- Debug interfaces:
 - MIPI10 connector for JTAG main DAP interface
 - Arm® JTAG 20 connector for main DAP interface
 - MIPI10 connector for secondary DAP interface
- Two 2x6-pin header connectors for SIPI interface
- All MCU signals are readily accessible at a port-ordered group of 0.1" pitch headers
- 2xUSB 2.0 Hi-Speed to JTAG/UART interfaces
 - USB to UART: 2xUART channels (USB Type-C®)
 - Integrated USB programmer/debugger + 1xUART channel (USB Type-C®)
- 4x CAN-FD interfaces: 2 channels with DB9 + 2 channels with a 2x4 header connector
- 4x LINFlexD interfaces with a 2x4 header connector
- 4x FlexRay: 2 DB9 connectors
- Ethernet interfaces:
 - Ethernet 0: 1xRGMII 1 Gb/s with RJ45 connector
 - 10BASE-T1S: 1x 10BASE-T1S single pair Ethernet MAC-PHY with SPI
- OctalSPI: 256 Mb HyperFlash™ and 64 Mbit HyperRAM in a multichip package (MCP)
- I²C interface: 4 channels with a 2x4 header connector
- User section: 3 push buttons; 8 LEDs; 2 potentiometers
- Extension module port (option):
 - 1x external module connector (DSPI, I²C, UART, GPIO, ANx)
 - 1x LCD DisplayPort
- 12 V external power supply

Description

The **SR6PX-EVBC6000P** is the evaluation board of the Stellar P series automotive MCU in BGA 476 package enabling the access to all the functionalities of the product.

Being based on socket, it can be the best solution to start prototyping any automotive application.

The board provides automotive Ethernet interfaces, FlexRay channels, FDCAN channels, LINFlexD, UART, I²C, OctalSPI multichip package memory and SPI standard communication interface, as well as LEDs, buttons, and potentiometers for user controls.

ST's StellarStudio, an Eclipse-based integrated development environment, provides a comprehensive framework to design, build, and deploy embedded applications. StellarStudio is available for free download from www.st.com and includes multiple free application examples ready to use on the SR6PX-EVBC6000P board.

1 Preface

Stellar SR6 devices embed the Arm® Cortex®-R52+ and Cortex®-M4 cores.

For information on the Arm® Cortex®-R52+ and Cortex®-M4 cores, refer to the technical reference manuals, available from the www.arm.com website.



Note:

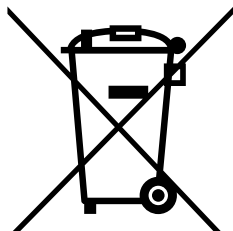
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2 Product disposal

Disposal of this product: WEEE (Waste Electrical and Electronic Equipment)

(Applicable in Europe)



This symbol on the product, accessories, or accompanying documents indicates that the product and its electronic accessories must not be disposed of with household waste at the end of their working life.

To prevent possible harm to the environment and human health from uncontrolled waste disposal, separate these items from other types of waste and recycle them responsibly at a designated collection point to promote the sustainable reuse of material resources.

Household users:

Contact the retailer that you purchased the product from or your local authority for details of your nearest designated collection point.

Business users:

Contact your dealer or supplier for further information.

Revision history

Table 1. Document revision history

Date	Revision	Changes
27-Jun-2025	1	Initial release.
25-Sep-2026	2	Updated confidentiality level from "ST restricted" to "Public". Added Section 1: Preface . Added Section 2: Product disposal . Minor text changes.

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