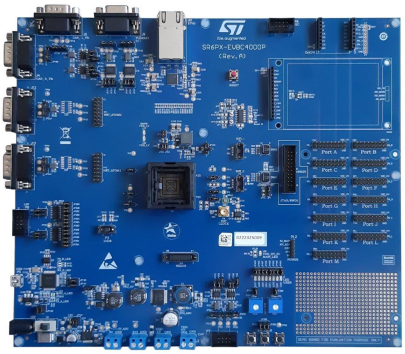
SR6PX-EVBC4000P

Data brief

Stellar P lines BGA 292 evaluation board



Product status link
SR6PX-EVBC4000P

Product summary	
Order code	SR6PX-EVBC4000P
Reference	SR6P3C4 evaluation board SR6P6C4 evaluation board SR6P7C4 evaluation board
Package	BGA 292

Features

- Socket based evaluation board for Stellar P series automotive MCU in BGA 292 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
  - Mictor40 connector for AURORA trace interface
- Two 2x6-pin header connectors for SIPI interface
- All MCU signals readily accessible at a port-ordered group of 0.1” pitch headers
- USB to UART: 2xUART channels (USB Mini-B)
- 4x CAN-FD interfaces: 2 channels with 1xDB9 + 2 channels with a 2x4 header connector
- 2x CAN XL interfaces: 2 channels with 2xDB9 connectors
- 4x LINFlexD interfaces with a 2x4 header connector
- 2x FlexRay interfaces: 1xDB9 connector
- Ethernet port:
  - 1xRGMII 1Gb/s with RJ45 connector
- I²C interfaces: 2 channels
- User section: 3 push buttons; 8 LEDs; 2 potentiometers
- Extension module port (option)
  - 1x external module connector (DSPI, I²C, UART, GPIO, ANx)
  - 1x LCD display port
- 12 V external power supply

Description

The SR6PX-EVBC4000P is the evaluation board of the Stellar P series automotive MCU in BGA 292 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 interface, FlexRay channels, FDCAN channels, CAN XL, LINFlexD, UART, I^2C 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-EVBC4000P board.

Revision history

Table 1. **Document revision history**

Date	Revision	Changes
27-Jun-2025	1	Initial release.
16-Jul-2025	2	Removed watermark ST restricted.

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