Evaluation Board for SCM-i.MX 6SoloX

The NXP evaluation board for SCM-i.MX 6SX simplifies product design and offers a feature-rich development platform for developers to work with the majority of the SCM-i.MX 6SX's primary features.

EVALUATION BOARD KIT CONTENTS

▶ SCM-i.MX 6SoloX evaluation board

▶ Power supply

▶ USB cable (micro-B to standard-A)

▶ Quick Start Guide

▶ Bootable SD card with Linux® image

The NXP evaluation platform for SCM-i.MX 6 SoloX is a set of software and hardware tools for product evaluation and application development. It was created to simplify product design and serves as an example for designers to quickly get started with the SCM product.

The onboard interfaces of the evaluation board include LVDS touch display interface, USB OTG, 2 SD card slots and a parallel camera connector. NXP provides reference hardware design files and a board support package (BSP) for Linux and Android™. The evaluation board comes with an SD card pre-installed with the Linux operating system.

The SCM-i.MX 6SoloX is a single-chip system module which contains an i.MX 6SoloX applications processor running at 800 MHz, an integrated MMPF0100 power management IC (PMIC), over 40 discrete passive components, and enabled for package-on-package (PoP) LPDDR2.

There are a number of accessory boards that work with the evaluation board to provide additional capabilities such as multi-touch display and Wi-Fi® connectivity.
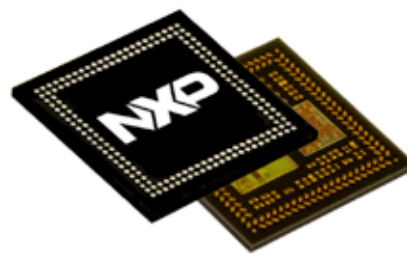
The 13 mm x 13 mm SCM-i.MX 6SX

NXP MCIMX-LVDS1 10.1" LVDS DISPLAY

The 10.1" display has a PCAP multi-touch screen and an LVDS interface. It supports a resolution of up to 1024 x 768, has a built-in LED driver, and includes an LVDS+I2C cable. Its multi-touch screen brings an enhanced experience to the users of the evaluation board. Available from **www.nxp.com**.

MURATA® WI-FI 802.11 MODULE

Murata has partnered with NXP Semiconductors and Broadcom Corporation to offer a complete Wi-Fi and Bluetooth® connectivity environment for building world class internet connected products on NXP i.MX 6 series platforms. For more information go to **http://wireless.murata.com/eng/products/rf-modules-1/wi-fi-bluetooth-for-nxp-i-mx.html**.

NXP MCIMXHDMICARD HDMI DAUGHTER CARD

The MCIMXHDMICARD is a 24-bit HDMI add-on card used along with the SCM-i.MX 6SX evaluation board. In order to use the optional HDMI card with the evaluation board, the environmental variables must be correctly set to support the card. Please refer to the SCM-i.MX 6 Series Linux User Guide for more information. Available from **www.nxp.com**.

SCM-I.MX 6SOLOX EVALUATION BOARD FEATURES

Single Chip System Module (SCM)	NXP® SCM i.MX 6SoloX
Development for	NXP SCM i.MX 6SoloX
Processor	i.MX 6SoloX applications processor • 800 MHz ARM® Cortex®-A9 core • 200 MHz ARM Cortex-M4 core
Memory/Storage	1 GB LPDDR2 up to 400 MHz (enabled as package-on-package configuration on top of the SCM-i.MX 6SoloX) 32 MB x 2 QSPI NOR flash (on board)
Power Management	NXP MMPF0100 (inside of the SCM-i.MX 6SoloX)
Power supply	5 V/2 A plus universal adapter
Display	LVDS connector LCD expansion connector (parallel, 24-bit)
User interface	Reset buttons
Audio	Audio codec 3.5 mm audio stereo HP jack Board-mounted microphone
Expansion Connector	Parallel camera connector LCD expansion port
Connectivity	2 x full-size SD/MMC card slots 1 x USB 2.0 OTG port (device only, micro USB) 1 x USB 2.0 host port (micro USB) 12-bit ADC connector 2 x CAN (DB-9) using MC34901 CAN transceiver 1 x Gigabit Ethernet connector
Debug	JTAG connector (20-pin) 1 x Serial-to-USB connector (for JTAG)
OS Support	Linux® and Android™
Tools Support	Manufacturing tool
Additional Features	MMA8451 three-axis accelerometer Digital eCompass Ambient light sensor

ORDERING INFORMATION

Part Number	Description	MSR (USD)
EVB-SCMIMX6SX	Evaluation board for SCM-i.MX 6SoloX	$399