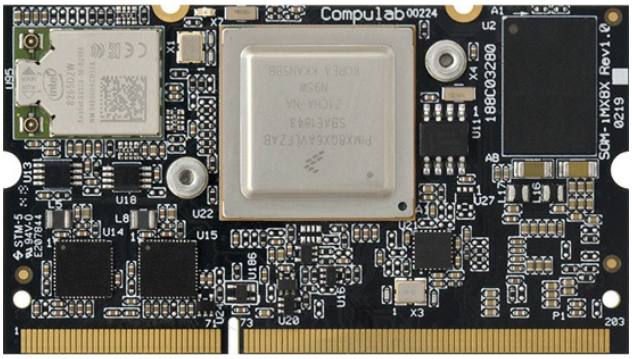
CAN Newsletter Online

SYSTEM-ON-MODULE

Three CAN FD interface on board

Compulab (Israel) has launched the CL-SOM-iMX8X System-on-Module (SoM) based on NXP's i.MX8X System-on-Chip (SoC) family. The SoC provides three CAN FD ports.

The module has been designed to bring out the I/O capabilities of the i.MX8X SoC. Besides the three CAN FD ports, peripheral interfaces include PCI Express, dual 1-Gbit/s Ethernet, USB ports, four UARTs, and 96 general-purpose inputs/outputs. Display connectivity is supported with two independent LVDS/MIPI-DSI interfaces. In addition, the module extends the SoC's I/O even further with on-board 802.11ac WiFi, Bluetooth 4.2 and three additional USB ports. The module is offered with an industrial temperature range (-40 °C to +85 °C).



The SoM is intended for human machine interface devices in different application fields including industrial automation and medical devices (Source: Compulab)

The module comes with a board support package (BSP) and ready-to-run images for the Linux operating system. The delivery includes Linux kernel 4.14, Yocto Project SDK and U-Boot boot-loader. To facilitate streamlined and rapid product development, the SoM is supported with the SB-iMX8X carrier-board and Eval-iMX8X evaluation kit. The carrier-board schematics, bill of materials, and layout are available to be used as a reference design.

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