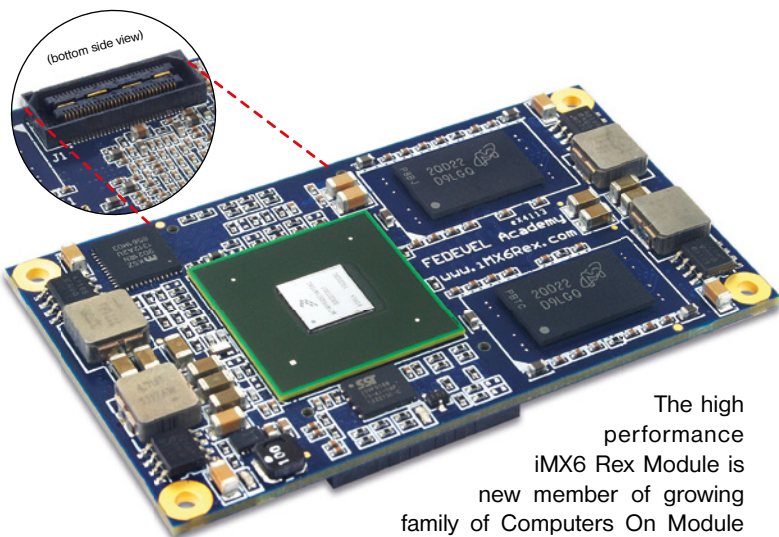


iMX6 Rex Module

Open Source Hardware and Software project

The smaller than credit card sized iMX6 Rex Module is targeting skilled development teams demanding high computing power and high speed peripherals for their multimedia applications. Together with the iMX6 Rex Base Board it creates **EMBEDDED** solution with all of the must-have peripherals, designed to speed up your development process.



The high performance iMX6 Rex Module is new member of growing family of Computers On Module available from Voipac. It is currently **the only i.MX6 DUAL/QUAD ARM Cortex-A9 based Open Source solution available with complete Altium Designer project documentation**, including Schematic, BOM and PCB files.

It is available with up to 1.2GHz clocked Freescale i.MX6 Dual/Quad core CPU, 2GB of soldered DDR3 SDRAM, Gigabit Ethernet PHY, High-Speed USB 2.0, HDMI, LVDS, SATA, and PCI Express, and offers 3D video and graphics acceleration.

All of the design-extensive parts are located at the 12-layer HDI micro-via iMX6 Rex Module that is available in 2 standard configurations. These can be further customized to exactly match your device temperature range and hardware requirements thus helping you to stay within budget.

Both BASIC and PRO configuration iMX6 Rex Modules are equipped with one 60pin High Speed Header on position J1 that provides access to the following basic, must-have peripherals: HDMI, 1Gb Ethernet, USB, SD, UART, SPI.

The PROFESSIONAL configuration iMX6 Rex Module is equipped also with the second 60pin High Speed Header on position J2 that contains additional and high speed peripherals: Audio, LVDS, SATA, PCIE, SD, USB, UART, JTAG, and 2x I2C.

iMX6 Rex Module is available with the **Open Source development environment** including access to complete documentation and ready-to-run SW support for Linux and Android. Support for Windows Embedded Compact 7 operating systems is under development.

Hardware Specification

CPU:	Freescale i.MX6 Cortex™ - A9 up to 1.2 GHz Dual/Quad
SPI FLASH:	up to 32Mbit
DDR3-1066 SDRAM:	up to 2GB, 533MHz
Ethernet:	10/100/1000 Mbps
I/O voltage:	3.3V
Input power:	7 to 24 V (DC)
Temperature range:	Commercial 0°C to +70°C Extended -20°C to +70°C Industrial -40°C to +85°C
Dimensions:	70 x 40 mm
High speed 60-pin board to board socket:	1/2
RoHS compliant	

Key Features

High-Speed USB 2.0
HDMI (up to QXGA 2048x1536)
LVDS (up to WUXGA 1920x1200)
Video Processing Unit, 1080p decoding and encoding (H.264, VC1, RV10, DivX, etc.)
Integrated GPU with OpenGL-ES 1.1 and 2.0, OpenVG 1.1, Windows Direct3D and OpenCL EP
Vector graphics processing unit (GPUVGv2)
PCIE
SATA
SD / MMC
CMOS UART / I2C / SPI
Digital audio
JTAG
User LED / Power LED

Supported Software

Linux 3.0 (preinstalled)
Android 4.4 (preinstalled upon request)
Windows Embedded (under development)



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