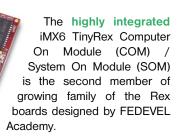
## iMX6 TinyRex Module

The impressively compact and scalable iMX6 TinyRex Module is targeting skilled development teams building demanding solutions. With unique HDMI video input interface, 300 pins, preinstalled operating system and clocked up to 1.2GHz, it enables designing of high-end mobile devices or unmanned air vehicles.



With **300** pins available on three low profile 100pin connectors, it is capable of revealing the full

performance potential of the i.MX6 NXP (Freescale) ARM<sup>®</sup> Cortex<sup>®</sup> A9 multicore application processor.

iMX6 TinyRex is the only system on the market supporting HDMI video input interface, making it ideal choice for unmanned air vehicles that are to process for instance a GoPro camera HDMI output signals.

With Yocto Project open source Linux OS including driver support for all peripherals integrated on the module, schematic of the iMX6 TinyRex Module and complete Altium Designer project documentation of the iMX6 TinyRex Base Board Lite available on a USB clip with each complete development kit, it is just a perfect match for designers or system integrators looking for:

- · acceleration of time-to-market of a new embedded device
- · reduction of the new device development costs and risks
- usage of a reliable solution proved by extensive field testing done by other users
- COM/SOM for portable, passive-cooled and battery-powered device

Furthermore, to ensure the iMX6 TinyRex Module suitability for your high-end multimedia device, its design was compressed into just 1.6mm thick, HDI micro-via Level III, 12-layer PCB with dimensions only 38 x 38 mm.

The COM is available in 5 standard **configurations that can be further customized** to better match your requirements for performance and operating temperature range, helping you to build a competitive product.

## Hardware Specification

CPU:	NXP i.MX6 ARM <sup>®</sup> Cortex <sup>®</sup> A9 Solo/Dual/Quad/QuadPlus up to 1.2 GHz
DDR3-1066 SDRAM:	up to 4GB, 533MHz
Ethernet:	10/100/1000 Mbps
I2C EEPROM:	up to 512Kbit
LED:	User, Power
I/O voltage:	3.3V
Input power:	2.7 to 5.5V (DC)
Temperature range:	Commercial 0°C to +70°C
	Extended -20°C to +70°C
	Industrial -40°C to +85°C
Dimensions:	38 x 38 x 4.8 mm
100pin connector:	Зх

## **Key Features**

HDMI output (up to QXGA 2048x1536) LVDS (up to WXGA 1366×768) 20-bit parallel LCD display (up to WXGA 1366×768) or 1x Video Input (CSI) **DSI MIPI differential display output** (up to XVGA 1024×768) 20-bit parallel video input CSI (up to 8192×4096) **MIPI** differential camera input PCIE. SATA NAND Flash or 1x MMC (8bit) SD (2x 4bit or optional 4 & 8bit) High-Speed USB 2.0, High-Speed USB OTG UART, I2C, SPI, CAN, Digital audio, GPIO and PWM **1000Mbit RGMII interface** System signals: Reset In/Out, Boot mode, Power ok JTAG on test points

## **Supported Software**

Yocto 2.3 (preinstalled) Android 7.1 Nougat (preinstalled upon request)





Your Local Distributor:

VOIPAC TECHNOLOGIES s.r.o. M.R. Štefánika 6670/19, 911 01 Trencin, Slovak Republic e-mail: sales@voipac.com www.voipac.com