

PICO-iMX6-SD



Main Features

- The PICO-IMX6-SD reference design based on the Freescale i.MX6 multimedia processor is a purpose-built, small footprint hardware platform equipped with a wide array of high-speed connectivity engineered to support IoT endpoints, wearable applications, appliances, drones or industrial mobile terminals.
- The affordable reference design is compatible with Intel Edison baseboards and adds a number of additional high-speed signals such as PCIe, RGMII LAN, USB as well as 24 bit TTL Display, LVDS, HDMI and MIPI CSI Camera and MIPI DSI Display options.
- The PICO-IMX6-SD combines outstanding detailed documentation and design files to integrate the module into your designs with support for Linux 3.x kernel sourcecode and has recipes for Yocto, Ubuntu and Android 4.3/4.4/5.0 available.



Specifications

System

Processor	Freescale i.MX6 Solo / Duallite
Technology	ARM Cortex-A9 single/dual core @ 1Ghz
System Memory	512MB or 1GB DDR3
Storage	SD cardslot
Operation System	Linux 3.x, Yocto, Android 4.3, Android 4.4, Android 5.0, Ubuntu

Connectivity

Gigabit Network RGMII	Signals routed to board-to-board connector
Wireless LAN	Broadcom BCM4335 802.11ac
Bluetooth	Broadcom BCM4336 Bluetooth v. 4.0

Connectors

Board-to-Board	1x Intel Edison compatible connector (Hirose 70-pin) 2x Hirose 70-pin connectors
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Power

Input Power Requirements	3.3 ~ 4.5 VDC
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I/O Interface Signalling

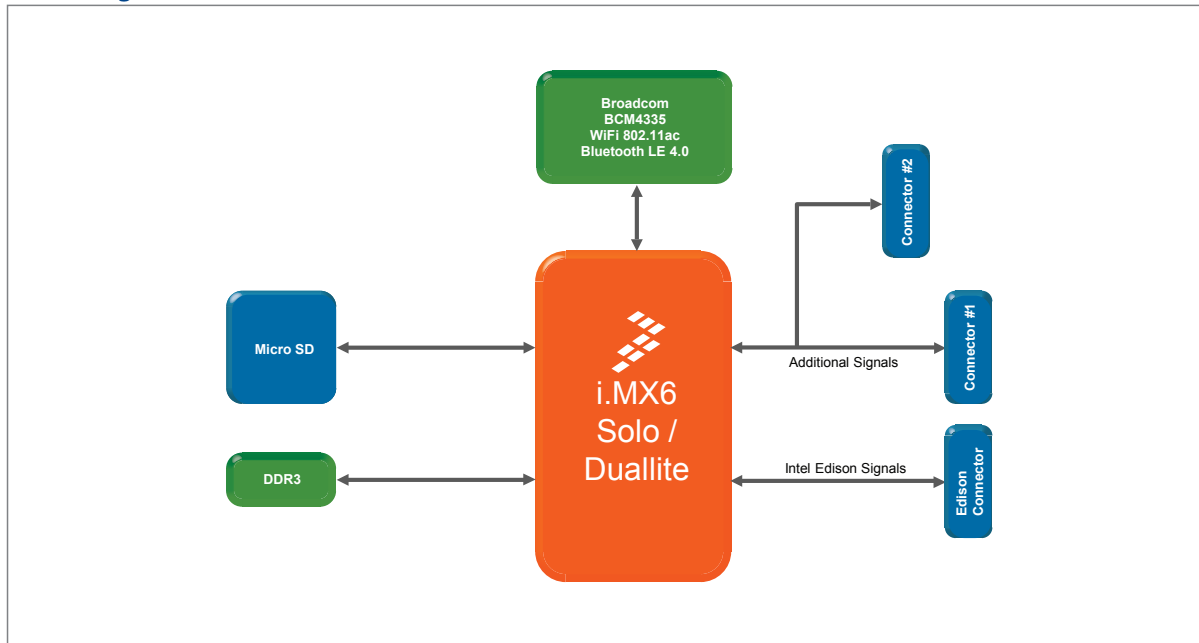
Edison I/O @ 1.8V	9x GPIO 4x PWM 2x I ² C 1x I ² S 1x SPI 2x UART USB-OTG SDIO (4-bit) Single Channel LVDS 24-bit TTL RGB HDMI 1.4 MIPI CSI Camera MIPI DSI Display PCIe RGMII (gigabit LAN) CAN
Additional I/O @ 3.3V	

Multimedia

GPU 3D	Vivante GC880 35Mtri/s 266Mpxl/s Open GL ES 2.0 Emulated on GPU 3D
GPU 2D (Vector Graphics)	
GPU 2D (Composition)	Vivante GC320 600Mpxl/s, BLIT
Video Decode	1080p30 + D1
Video Encode	1080p30 H.264 BP / Dual 720p

Pico iMX6-SD

Block Diagram



Environmental and Mechanical

Temperature	Commercial : 0° to 60° C
	Extended : -20° to 70° C
	Industrial : -40° to 85° C (no WiFi possible)
Humidity	10 to 90%
Dimensions	36 x 40 mm
	1 1/8 x 1 1/8 inch
Weight	8 grams
Certification	Compliant with CE, FCC, RoHS, REACH directives

Ordering Information

PICOIMX6S10R512SDBW

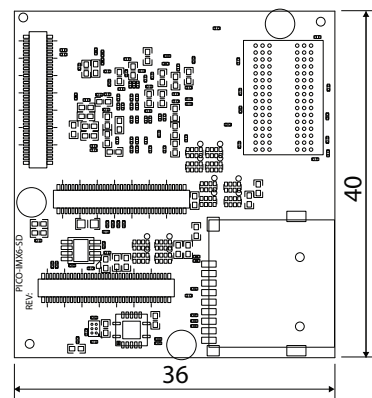
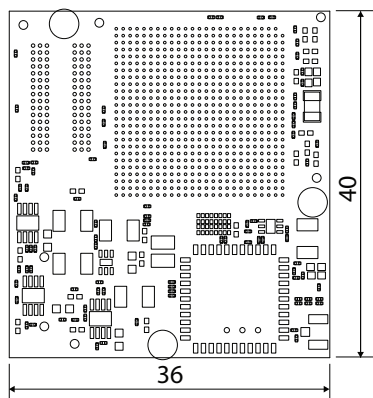
PICO-IMX6-SD Module with i.MX6 Solo Processor, 512MB DDR, SD Cardslot and WiFi / Bluetooth

PICOIMX6U10R1GBSDBW

PICO-IMX6-SD Module with i.MX6 Duallite Processor, GB DDR, SD Cardslot and WiFi / Bluetooth

Dimensions

(units in mm)



* Feel free to contact us for custom tailored Carrier Board request for your projects.

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