PICO-IMX6-SD

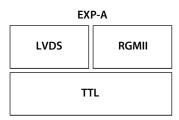


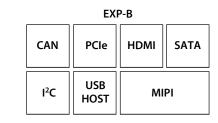
Main Features

- The PICO-IMX6-SD reference design based on the NXP 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, 4.x kernel sourcecode and has recipes for Yocto, Ubuntu and Android 4.3/4.4/5.0/6.1available.



EDISON					
Power	SDIO	l²S	SPI	PWM	
rower	USB OTG	UART	I ² C	GPIO	





Specifications

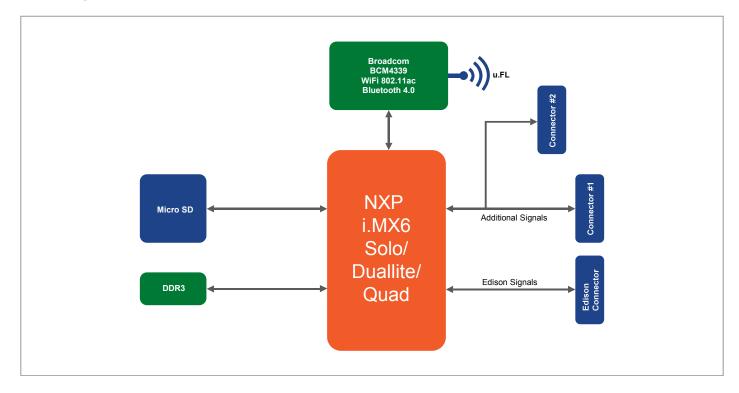
Video **Core System** Solo/Duallite Ouad Processor GPU 3D Vivante GC880 Vivante GC2000 NXP i.MX6 Solo/Duallite/Ouad Technology ARM Cortex-A9 single/dual/quad core @ 1GHz 35Mtri/s 266Mpxl/s 200Mtri/s 1000Mpxl/s System Memory up to 2GB DDR3 Open GL ES 2.0 OpenGL ES 2.0 Storage Micro SD cardslot & Halti, CL EP Connectivity Emulated on GPU 3D Vivante GC355 GPU 2D Gigabit Network RGMII Signals routed to board-to-board connector (Vector Graphics) 300Mpxl/s WiFi Broadcom BCM4339 802.11ac OpenVG 1.1 Broadcom BCM4339 BT 4.0 Bluetooth GPU 2D Vivante GC320 Vivante GC320 I/O Interface Signalling (Composition) 600Mpxl/s, BLIT 600Mpxl/s, BLIT Edison I/O GPIO PWM Video Decode 1080p30 + D1 1080p60 H.264 I²C Video Encode 1080p30 H.264 1080p30 H.264 $|^2S$ BP/Dual 720p BP/Dual 720p SPI **Audio** UART USB-OTG Interface I^2S SDIO (4-bit) Audio Codec On Carrier Board Additional I/O Single Channel LVDS 24-bit TTL RGB **Power Specifications** HDMI 1.4 Input Power 4.2-5.25V DC **MIPI CSI Camera** Connectors **MIPI DSI Display** PCle Board-to-Board Edison compatible connector (Hirose 70-pin) RGMII (gigabit LAN) Hirose 70-pin connectors CAN **Operation Systems** SATAII(Quad Only)

Standard Support

Linux, Yocto, Android, Ubuntu

USB Host

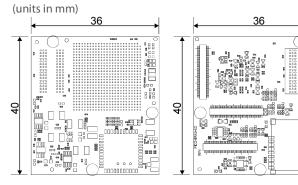
Block Diagram



Environmental and Mechanical

Temperature	Commercial : 0° to 60° C Extended : -20° to 70° C Industrial : -35° to 85° C (no WiFi)
Humidity	10 to 90%
Dimensions	36 x 40 mm
	1¾x 1⁵⁄sinch
MTBF	>100,000 hours
Weight	8 grams
Certification	Compliant with CE, FCC, RoHS, REACh directives

Dimensions



Ordering Information

PICO-IMX6x-xx-Rxxx-SD-xx-xxx-xxxx

	Code	Description	
Processor		i.MX6 Solo	
	IMX6U	i.MX6 Duallite	
	IMX6Q	i.MX6 Quad	
Processor speed	08	800 MHz	
	10	1 GHz (Default)	
	12	1.2 GHz	
Memory	R512	512 MB DDR3	
	R1GB	1GB DDR3	
		2GB DDR3	
Storage	SD	Micro SD Cardslot	
Wireless Networking	-	No	
	BW	802.11ac + Bluetooth 4.0	
Temperature Range	-	Commercial Temperature range	
		(0~60° C)(Default)	
	TE	Extended Temperature range	
		(-20~70° C)	
	TI	Industrial Temperature range	
		(-35~85° C)	
	TEC	Certified Extended Temperature range	
		(-20~70° C)	
	TIC	Certified Industrial Temperature range (-35~85° C)	
	XXXX	Custom Part number ID for customized	
Custom ID		software loader and special	
		component (BOM)	

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

2016-09. All specifications are subject to change without notice.