PICO-IMX6UL

Main Features

- The PICO-IMX6UL design based on the Freescale i.MX6 multimedia processor is a purpose-built, small footprint hardware platform compatible with Intel Edison baseboards and adds a number of additional high-speed signals such as RMII LAN, USB and 24 bit TTL Display

- ARM Cortex-A7 Freescale i.MX6UL single core System-on-Module

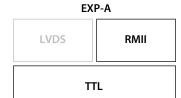- WiFi 802.11ac and Bluetooth v. 4.0 communication interface

Brillo | freescale

EDISON				
Power 3.3~4.5V	SDIO	I²S	SPI	PWM
	USB OTG	UART	I²C	GPIO

EXP-A	
LVDS	RMII
TTL	

EXP-B			
CAN	PCIe	HDMI	SATA
I²C	USB HOST	MIPI	

Specifications

Core System
CPU	Freescale i.MX6UL @ 528MHz
Technology	ARM Cortex-A7 single core
PMIC	Freescale MMPF0100
System Memory	up to 1GB DDR3
Storage	QSPI up to 256MB nor Flash

Connectivity
Network RMII	Signals routed to connector
WiFi	Broadcom BCM4339 802.11ac
Bluetooth	Broadcom BCM4339 BT 4.0

I/O Interface Signalling
Edison I/O @ 1.8V	9x GPIO
	2x PWM
	2x I²C
	1x I²S
	1x SPI
	2x UART
	USB-OTG
	SDIO (4-bit)
Additional I/O @ 3.3V	24-bit TTL RGB
	RMII LAN
	2 x CAN
	USB Host
	I²C

Video
PXP	Image re-sizing, rotation, overlay and CSC Pixel Processing Pipeline

Audio
Interface	I²S (2 channel)
Audio Codec	on Carrier Board

Power Specifications
Input Power	3.3 ~ 4.5 VDC

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

Operation Systems
Standard Support	Linux 3.x, Yocto, Brillo

Block Diagram

Environmental and Mechanical

Temperature	Commercial : 0° to 60° C
	Extended : -20° to 70° C
	Industrial : -40° to 85° C (no WiFi)
Humidity	10 to 90%
Dimensions	36 x 40 mm
	1⅜ x 1⅝ inch
MTBF	>100,000 hours
Weight	8 grams
Shock	50G / 25ms
Vibration	20G / 0-600 Hz

Ordering Information
TBD

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

Dimensions
(units in mm)