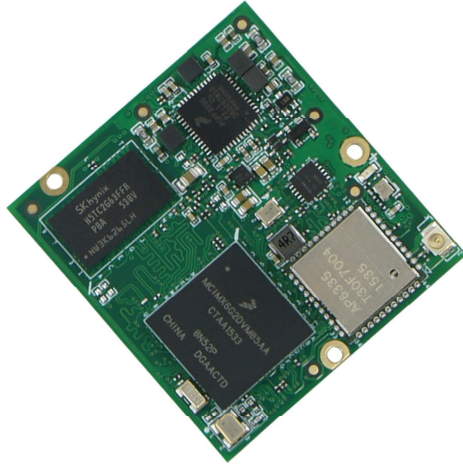# PICO-IMX6UL-EMMC

Main Features

- The PICO-IMX6UL-EMMC design based on the NXP 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 NXP i.MX6UL single core System-on-Module.

- WiFi 802.11ac and Bluetooth v. 4.0 communication interface.

EDISON

Power	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	NXP i.MX6UL @ 528MHz
Technology	ARM Cortex-A7 single core
PMIC	NXP PF3000
System Memory	up to 1GB DDR3L
Storage	Onboard eMMC (default 4GB)

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	GPIO
	PWM
	I²C
	I²S
	SPI
	UART
	USB-OTG
Additional I/O	24-bit TTL RGB
	RMII LAN
	CAN
	USB Host
	I²C

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

Audio
Interface	I²S
Audio Codec	on Carrier Board

Power Specifications
Input Power	4.2-5.25V DC

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

Operation Systems
Standard Support	Linux, Yocto

Block Diagram
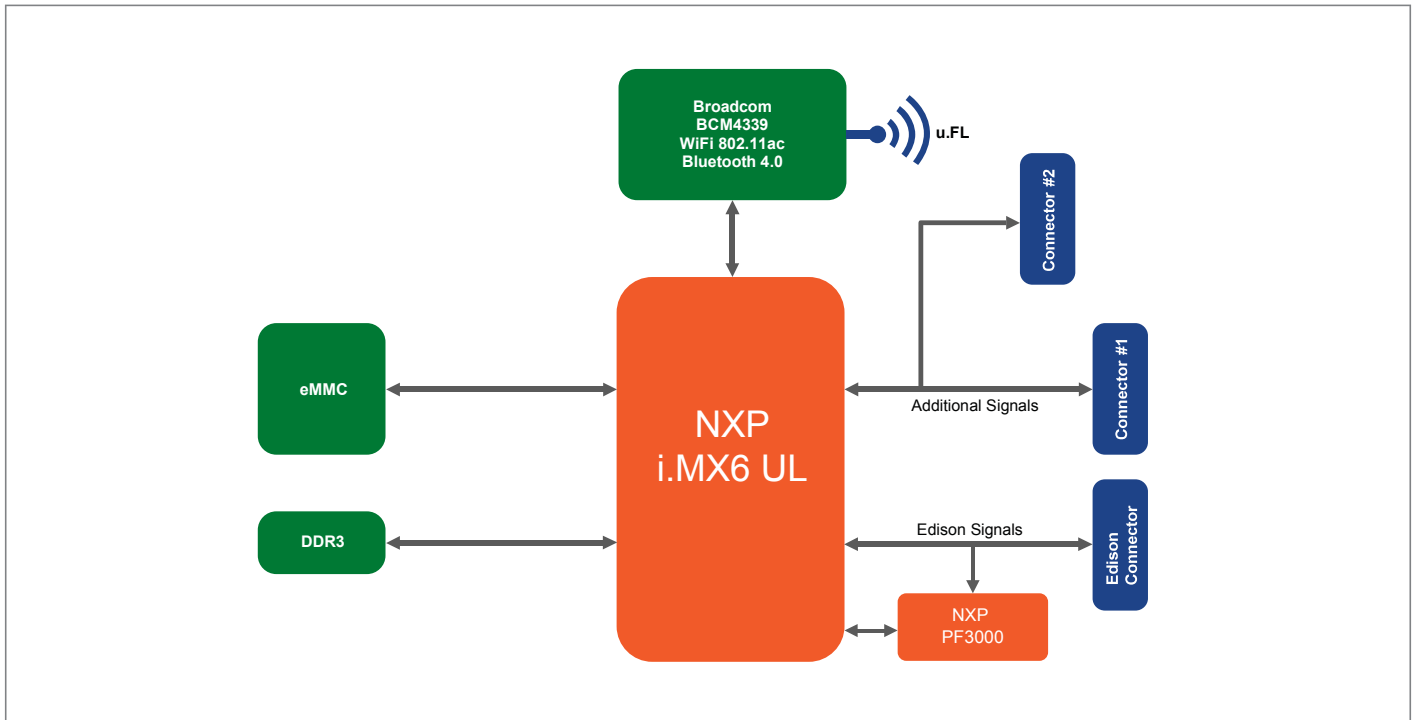
Environmental and Mechanical

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
	1⅜ x 1⅝ inch
MTBF	>100,000 hours
Weight	8 grams
Certification	Compliant with CE, FCC, RoHS, REACh directives

Dimensions
(units in mm)
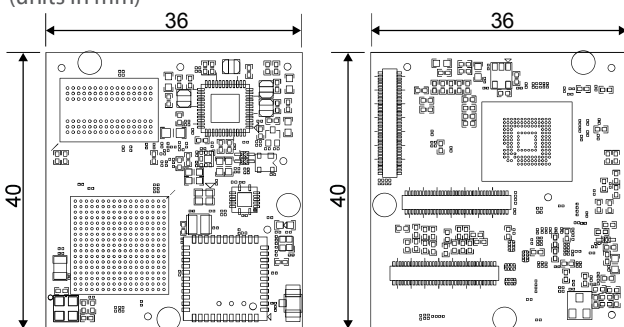
Ordering Information
PICO-IMX6G2-05-Rxxx-Exx-xx-xxx-xxxx

	Code	Description
Processor	G2	i.MX6 Ultralite
Processor speed	05	528 MHz
Memory	R256	256 MB DDR3L
	R512	512 MB DDR3L
Storage	E04	eMMC capacity in Gigabyte E04 = 4GB : E08 = 8GB : E16 = 16GB E32= 32GB : E64 = 64GB
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)
Custom ID	XXXX	Custom Part number ID for customized 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.

PICO System-on-Modules   TechNexion