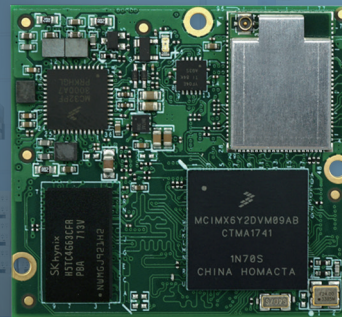


PICO-IMX6ULL

- NXP i.MX 6UL/ULL applications processor
- Low Power Cortex-A7 processor
- Linux Mainline Support
- Certified Wi-Fi 5 and Bluetooth LE



Specifications

Core System

Processor	NXP i.MX6ULL NXP i.MX6UL
Processor speed	Up to 900MHz
Architecture	ARM Cortex-A7
PMIC	NXP PF3000
Memory	Up to 1GB DDR3L
Storage	4GB eMMC
Board-to-Board Connector	PICO 70-pin Hirose connectors
System on Module	PICO SOM

Signaling

I/O	RMII RGB TTL USB USB OTG I ² S CAN UART SPI I ² C PWM GPIO
-----	--

Connectivity

Network LAN	RMII
Wi-Fi	Qualcomm Atheros QCA9377 Wi-Fi 5 – 802.11 a/b/g/n/ac (optional)
Bluetooth	Qualcomm Atheros QCA9377 Bluetooth (optional)
Antenna	MHF4 connector (optional)

Video

GPU Engine	Image re-sizing / rotation / overlay and CSC Pixel Processing Pipeline
------------	--

Audio

Audio Codec	On carrier board
Audio Connectors	I ² S (1 channel)

Power Specifications

Power Input	5V DC +/-5%
Power Consumption	Depending on Configuration

Operation Systems

Standard Support	Linux Yocto Ubuntu
Extended Support	Commercial Linux

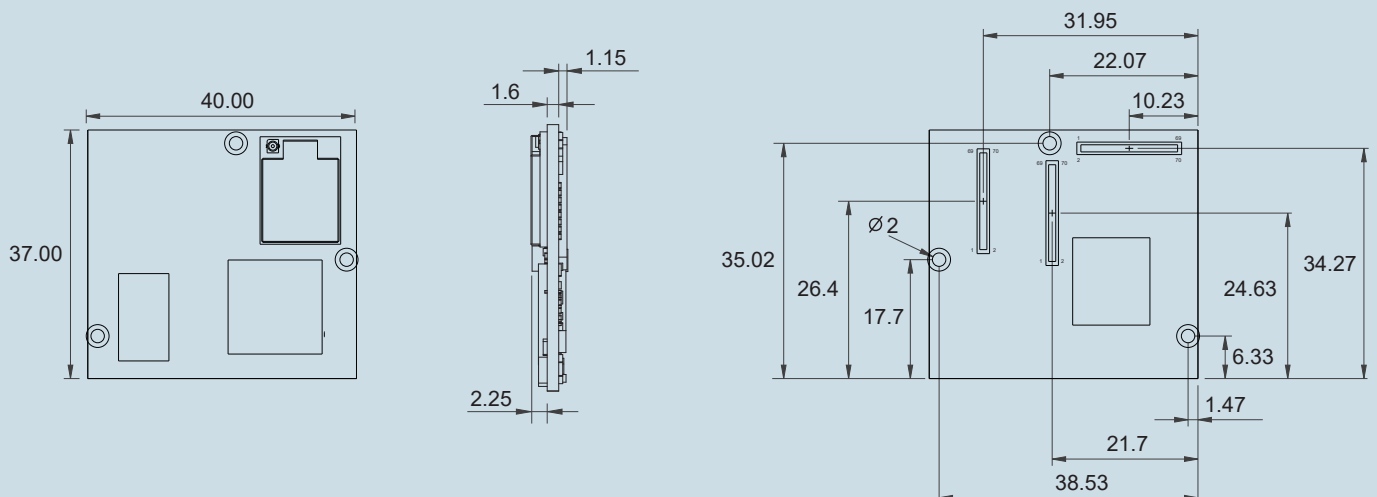
Environmental and Mechanical

Dimensions	40 (W) x 37 (H) x 5 (D) mm
Form Factor	PICO
Relative Humidity	10 to 90 %
MTBF	100,000+ Hours
Shock	15G half-sine 11 ms duration
Operation Temperature	Commercial: 0° to +60° C Industrial: -40° to +85° C
Vibration	1 Grms random 5-500Hz hr/axis
Weight	8 grams

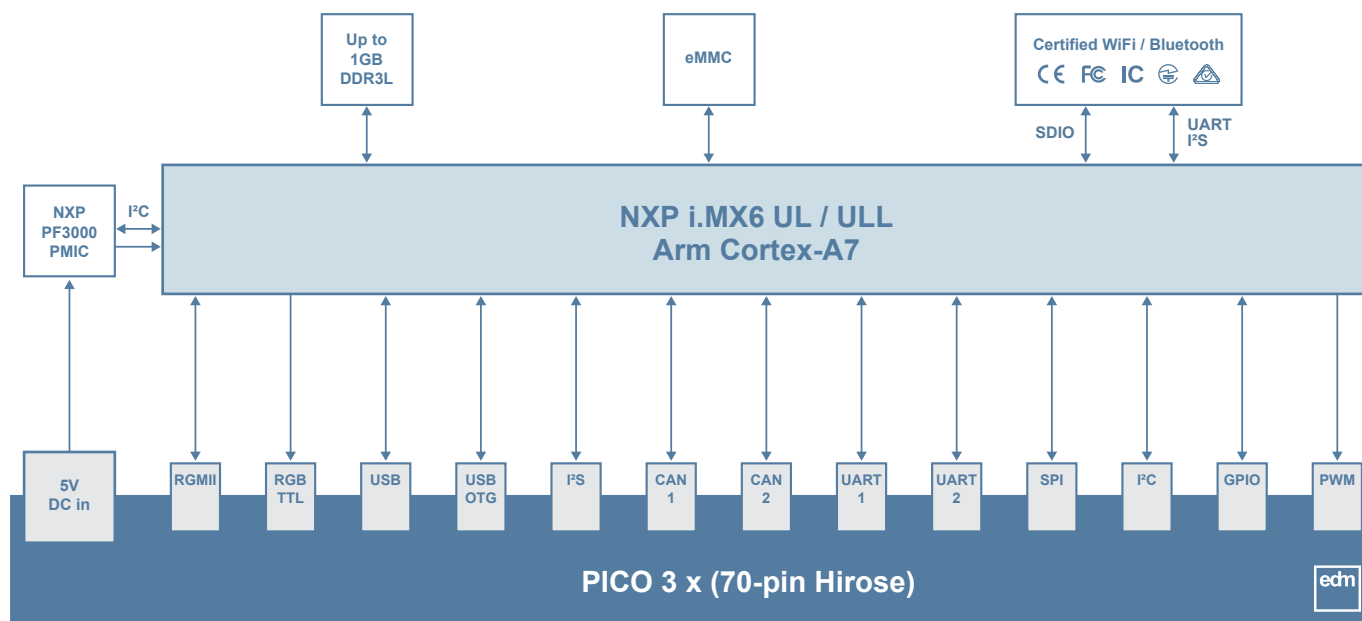
Certification and Compliance

USA	FCC ID: 2AKZA-QCA9377
Canada	IC: 22364-QCA9377
European Union	EN 300 328 v2.2.2 EN 301 893 v2.1.1 EN 55032 / EN 55024
Japan	TELEC: 201-180629
Australia/New Zealand	RCM Compliant
Bluetooth Logo	QDID 150839 (Bluetooth 4.2) QDID 193238 (Bluetooth 5)
Certification	Compliant with RoHS / REACH directives

Dimensions (units in mm)



Block Diagram



Order Information

PICO-IMX6xx-xx-Rxx-Exx-xxxx-xx-xxxx

	Code	Description
Processor	IMX6G	NXP i.IMX6UL
	IMX6Y	NXP i.IMX6ULL
Processor Speed	05	528MHz
	09	900MHz
Memory	R02	256MB DDR3L
	R05	512MB DDR3L
	R10	1GB DDR3L
Storage	E04	eMMC 4GB
	EXX	eMMC other capacity
Wi-Fi / Bluetooth	-	-
	9377	Qualcomm QCA9377 802.11a/b/g/n/ac (2.4 + 5GHz) + Bluetooth
Temperature Range	-	Commercial Temperature range (0° to +60°C)(Default)
	T1	Industrial Temperature range (-40° to +85°C)
Custom ID	XXXX	Custom Part number ID for customized Software loader and special component (BOM)