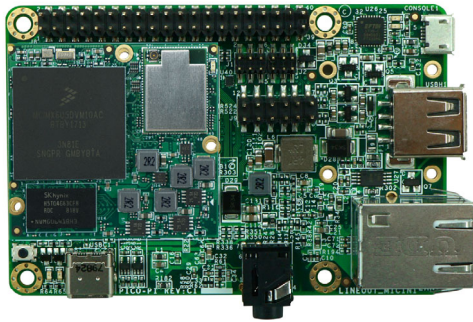


PICO-PI-IMX6



Main Features

- PICO-PI-IMX6 is a performance, ultra-efficient system specially designed for IoT applications.
- TechNexion PICO-PI-IMX6 platform can be applied in a wide range of applications ranging from simple IoT devices to applications with significant level of complexity.
- Software source code at your fingertips: Android, Linux, Yocto and Ubuntu.



Specifications

Core System

Processor	NXP i.MX6 Solo NXP i.MX6 Duallite NXP i.MX6 Quad
Processor speed	up to 1GHz
Architecture	ARM Cortex-A9
Memory	up to 2GB DDR3
Storage	eMMC (16GB Default) MicroSD Cardslot (optional)
Board-to-Board Connector	Edison compatible connector PICO 70-pin Hirose connectors
System on Module	PICO System on Module

Connectivity

Network LAN	RGMI
Wi-Fi/Bluetooth	Qualcomm QCA9377 802.11 a/b/g/n/ac + BT (BR+EDR+BLE)
Antenna	MHF4 connector

Internal Headers

Internal Display	1x 24-bit TTL RGB signals (expansion header) MIPI CSI+DSI signals on 33-pin FPC connector
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Expansion Headers	GPIO I ² C I ² S PWM RS232 SPI USB
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MikroBUS	ADC GPIO I ² C PWM SPI UART
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External Connectors

Audio Connectors	CTIA compliant 3.5mm audio jack
Network	1x RJ45
USB	1x USB 2.0 Host 1x USB 2.0 OTG (Type-C)
Buttons	1x Reset

Video

Graphic Engine	Vivante GC320 (2D Composition) Vivante GC355 (Quad) Vivante GC880 (Solo/DualLite) Vivante GC2000 (Quad)
Video Decode	1080p30 + D1 (Solo/DualLite) 1080p60 H.264 (Quad)
Video Encode	1080p30 H.264 BP/Dual 720p
Camera	MIPI CSI (4 lanes)

Audio

Audio Codec	NXP SGTL5000
Audio Interface	I ² S (2 channel)

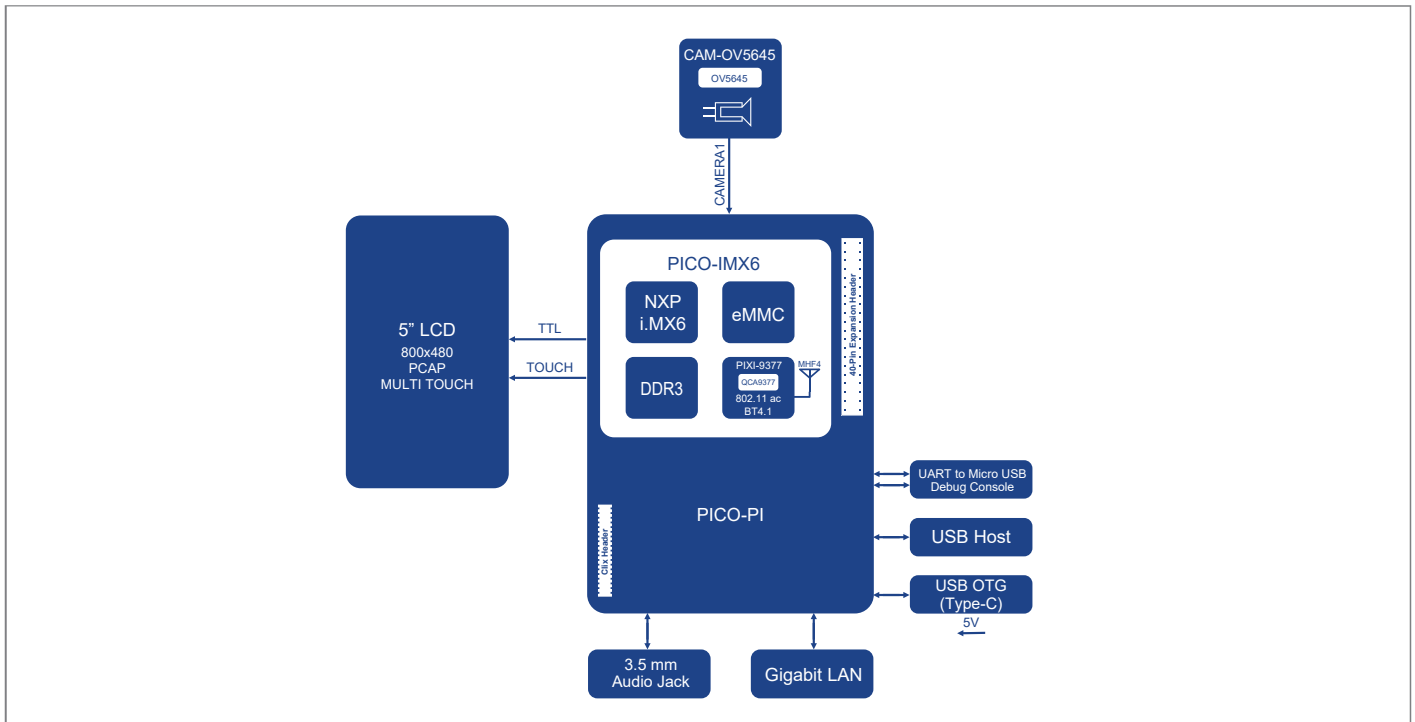
Power Specifications

Power Input	5V DC +/-5%
Power Connector	USB OTG (Type-C)
Power Consumption	Depending on Configuration

Operation Systems

Standard Support	Linux Yocto Android
Extended Support	Commercial Linux

Block Diagram



Environmental and Mechanical

Dimensions	85.6 x 56.5 x 17.5 mm
Weight	47 grams
Temperature	Commercial: 0° to +60° C
Relative Humidity	10 to 90 %
MTBF	>100 000 Hours
Shock	50G/25ms
Vibration	20G/0-600Hz
Certification	Compliant with CE / FCC / RoHS / REACH directives

Ordering Information

PICO-PI-IMX6
Development Kit based around NXP i.MX6 applications processor including camera module, 5 inch PCAP display, antenna and cable set.



* Feel free to contact us for customization requests.

Dimensions

(units in mm)

