PICO-PI-IMX7



Main Features

- PICO-PI-IMX7 is a highly integrated multi-market applications system with advanced features designed to enable secure and portable applications within the Internet of Things.
- TechNexion PICO-PI-IMX7 platform can be applied in a wide range of applications ranging from simple IoT devices to applications with high level of complexity.
- This developer kit has been qualified and tested by Google to run Android Things at optimal performance.











Specifications

Core System

Processor NXP i.MX7 Dual 1GHz Architecture ARM Cortex-A7 + M4 NXP PF3000 **PMIC** Memory 512MB DDR3L Storage eMMC (4GB Default)

Board-to-Board Connector Edison compatibile connector PICO 70-pin Hirose connectors

Debug Interface Micro USB debug

Connectivity

Network LAN Atheros AR8035 Gigabit LAN

WiFi/Bluetooth **Broadcom BCM4339**

802.11 a/b/g/n/ac + BT4.1 (BR+EDR+BLE) Antenna u.FL connector (optional)

Internal Headers

Internal Display 1x 24-bit TTL RGB signals (expansion header) MIPI CSI+DSI signals on 33-pin FPC connector

GPIO Expansion Headers

 I^2C I^2S **PWM** RS232 SPI

USB

MikroBUS ADC

> **GPIO** I^2C **PWM** SPI **UART**

External Connectors

Audio Connectors CTIA compliant 3.5mm audio jack Network 1x RJ45

1x USB 2.0 Host **USB**

1x USB 2.0 OTG (Type-C)

Buttons 1x Reset

Video

Graphic Engine Image re-sizing / rotation / overlay

and CSC Pixel Processing Pipeline

Camera MIPI CSI (2 lanes)

Audio

NXP SGTL5000 Audio Codec Audio Interface I²S (2 channel)

Power Specifications

Power Input 5V DC +/-5% **Power Connector** USB OTG (Type-C)

Power Consumption Depending on Configuration

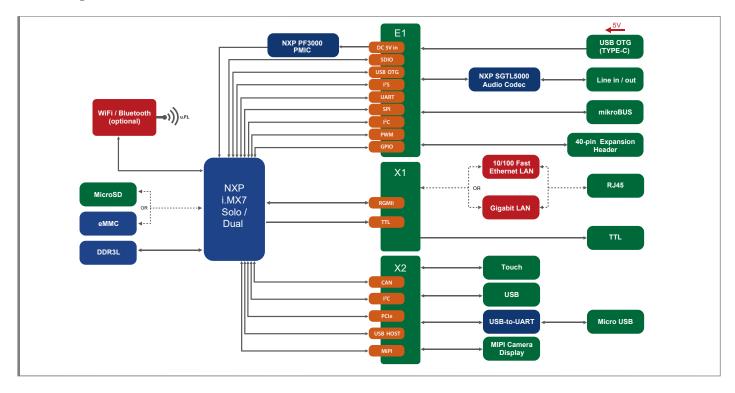
Operation Systems

Standard Support Android Things

Linux Yocto Ubuntu Android

Commercial Linux **Extended Support**

Block Diagram



Environmental and Mechanical

Dimensions 85.6 x 56.5 x 17.5 mm

Weight 43 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-IMX7-xxxxxxx

PICO-PI-IMX7

Android Things Development Board based around NXP i.MX7Dual processor.





PICO-PI-IMX7-STARTKIT

Development Kit based around NXP i.MX7Dual applications processor including camera module, 5 inch PCAP display, antenna and cable set.







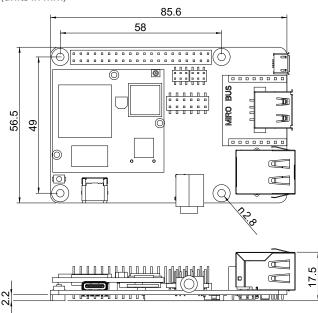




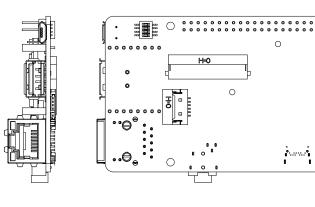


Dimensions

(units in mm)



* Feel free to contact us for customization requests.



2017-11-09 All specifications are subject to change without notice.

°

0