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
PMIC
NXP PF3000
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

Expansion Headers GPIO I²C

I²S PWM RS232 SPI USB

MikroBUS ADC

GPIO I²C PWM SPI UART

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 Image re-sizing / rotation / overlay

and CSC Pixel Processing Pipeline

Camera MIPI CSI (2 lanes)

Audio

Audio Codec NXP SGTL5000 Audio Interface I²S (2 channel)

Power Specifications

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

Power Consumption Depending on Configuration

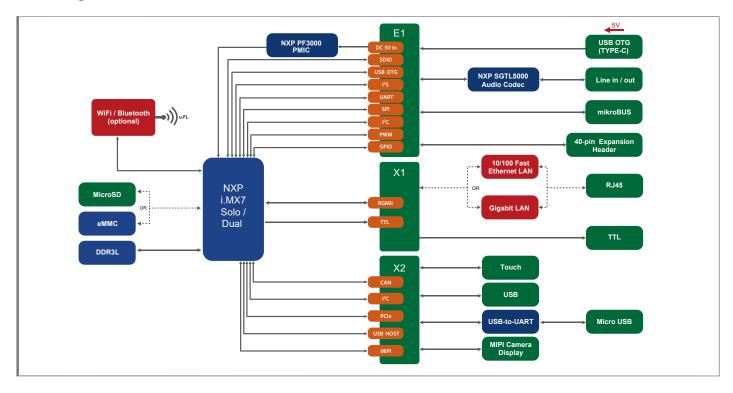
Operation Systems

Standard Support Android Things

Linux Yocto Ubuntu Android

Extended Support Commercial Linux

Block Diagram



Environmental and Mechanical

Dimensions 85.6 x 56.5 x 17.5 mm

Weight 43 grams

Commercial: 0° to +60° C Temperature

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.







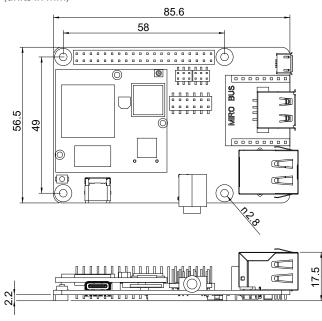




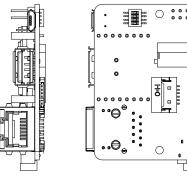


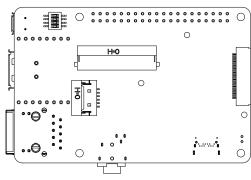
Dimensions

(units in mm)



* Feel free to contact us for customization requests.





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