## Specifications

### Core System
- **Processor**: NXP i.MX6 UL/ULL
- **Architecture**: ARM Cortex-A7
- **PMIC**: NXP PF3000
- **Memory**: 512MB DDR3L
- **Storage**: eMMC (4GB Default)
- **Board-to-Board Connector**: Edison compatible connector
- **Debug Interface**: PICO 70-pin Hirose connectors

### Connectivity
- **Network LAN**: Micrel KSZ8081RNBCA Fast Ethernet LAN
- **WiFi/Bluetooth**: Broadcom BCM43438 802.11 b/g/n + BT 4.1 (BR+EDR+BLE)
- **Antenna**: u.FL connector (optional)

### Internal Headers
- **Internal Display**: 1x 24-bit TTL RGB signals (expansion header)
- **Expansion Headers**: GPIO, I²C, I²S, PWM, 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

### Audio
- **Audio Codec**: NXP SGTL5000
- **Audio Interface**: I²S (1 channel)

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

### Operation Systems
- **Standard Support**: Linux
- **Extended Support**: Yocto Commercial Linux

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## Main Features

- PICO-PI-IMX6UL/ULL is a performance, ultra-efficient system specially designed for IoT applications.
- TechNexion PICO-PI-IMXUL/ULL platform can be applied in a wide range of applications ranging from simple IoT devices to applications with significant level of complexity.
- This developer kit has been qualified and tested by Google to run Android Things at optimal performance.
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-IMX6UL
Android Things Development Board based around NXP i.MX6UltraLite applications processor.

* Feel free to contact us for customization requests.

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Block Diagram

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Dimensions (units in mm)