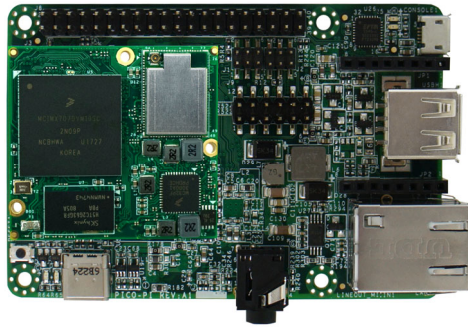


PICO-PI-IMX7



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.



Specifications

Core System

Processor	NXP i.MX7 Dual 1GHz
Architecture	ARM Cortex-A7 + M4
PMIC	NXP PF3000
Memory	1GB DDR3L
Storage	eMMC (8GB Default)
Board-to-Board Connector	Edison compatible connector PICO 70-pin Hirose connectors
Debug Interface	Micro USB debug

Connectivity

Network LAN	Atheros AR8035 Gigabit LAN
Wi-Fi/Bluetooth	Qualcomm QCA9377 (optional) 802.11 a/b/g/n/ac + BT 5 (BR+EDR+BLE)
Antenna	MHF4 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 I ² C I ² S PWM RS232 SPI USB
MikroBUS	ADC GPIO I ² C 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	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 Ubuntu Android
Extended Support	Commercial Linux

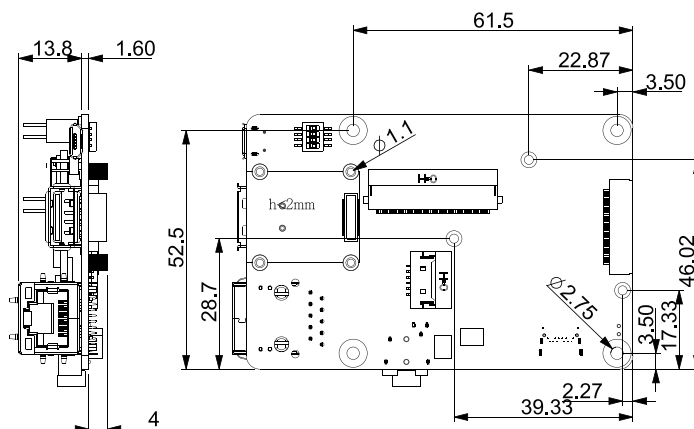


Ordering Information

Dimensions

Technical drawing of the front view of the device, showing dimensions in millimeters. The drawing includes a top panel with a display and buttons, a bottom panel with a display and buttons, and a central panel with a display and buttons. Dimensions are provided for the overall size and individual components.

Dimension	Value (mm)
Overall Width	85.00
Overall Height	52.4
Top Panel Width	53.1
Top Panel Height	46.80
Top Panel Button Width	32.50
Bottom Panel Width	51.82
Bottom Panel Height	36.07
Bottom Panel Button Width	44.76



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