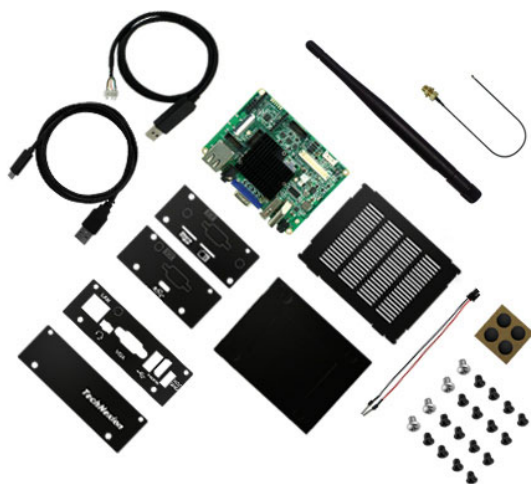


PICO-NYMPH-IMX6



Main Features

- TechNexion PICO-NYMPH-IMX6 platform can be applied in a wide range of applications ranging from simple IoT devices to applications with high level of complexity.
- Featuring NXP i.MX6 DualLite or Quad processor that runs up to 1GHz per core, based on the ARM Cortex A-9 architecture, delivered in advanced process.
- Software source code at your fingertips: Android, Linux, Yocto and Ubuntu.



Specifications

Core System

Processor	NXP i.MX6 DualLite NXP i.MX6 Quad
Processor Speed	1GHz
Architecture	ARM Cortex-A9
Memory	1GB DDR3
Storage	8GB eMMC
Board-to-Board Connector	Edison compatible connector PICO 70-pin Hirose connectors
System on Module	PICO SOM
Debug Interface	UART Interface by Through-hole

Connectivity

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

Expansion Interfaces

Expansion Slots	1x M.2 slot (USB signals only) 1x mini-PCIe with SIM cardslot
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Internal Headers

Internal Display	1x single channel LVDS (expansion header) MIPI DSI signals on 33-pin FPC connector
Expansion Headers	CAN RS232 USB
MikroBUS	ADC GPIO I ² C PWM SPI UART

External Connectors

External Display	1x HDMI 1x VGA 15-pin D-SUB
Audio Connectors	CTIA compliant 3.5mm audio jack
Network	1x RJ45
USB	1x USB 2.0 Host 1x USB 2.0 OTG (Type-C)
SIM Cardslot	1x Micro-SIM cardslot
SD Cardslot	1x microSD cardslot

Video

Graphic Engine	Vivante GC880 (DualLite) Vivante GC2000 (Quad)
Video Decode	1080p30 + D1 (DualLite) 1080p60 H.264 (Quad)
Video Encode	BP/Dual 720p

Audio

Audio Codec	NXP SGT5000
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Sensors

RTC	maxim integrated DS1337+ with backup battery
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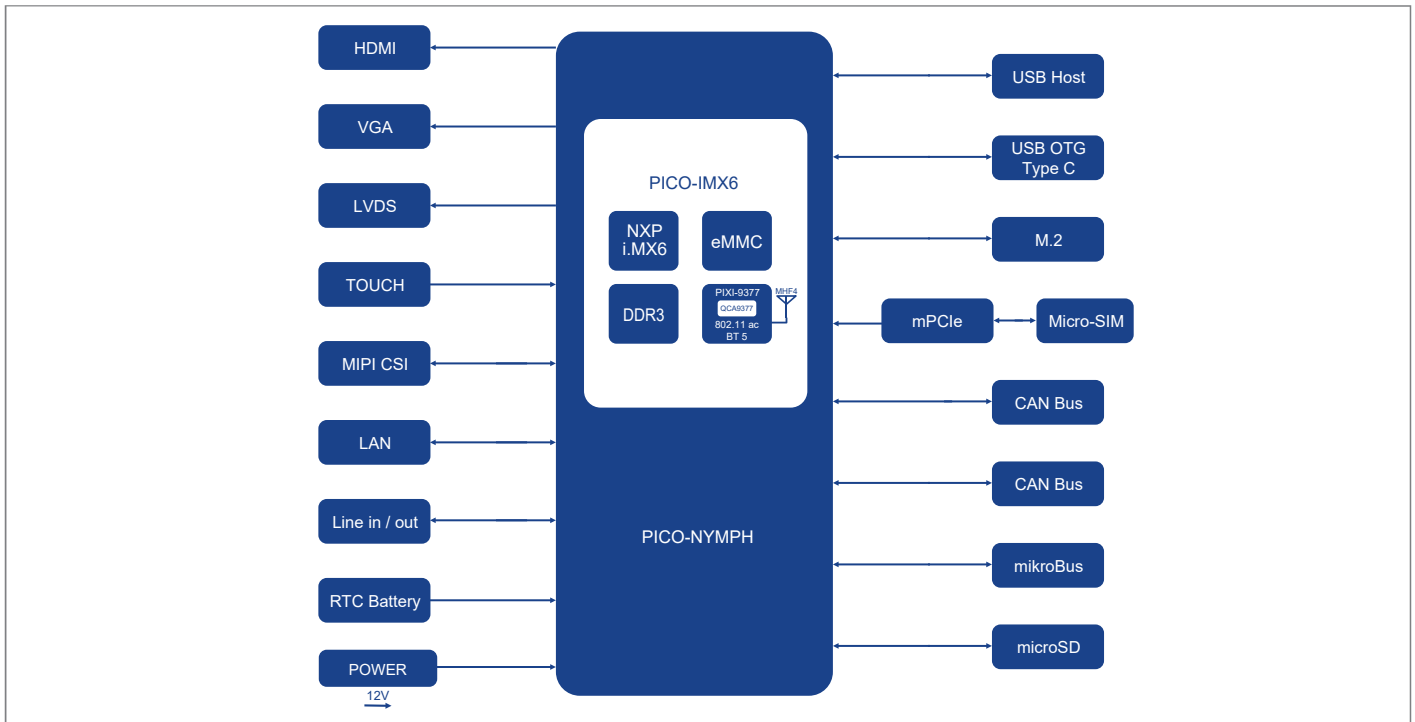
Power Specifications

Power Input	12V DC +/-5%
Power Connector	2-pin Micro-Fit 3.0
Power Consumption	Depending on Configuration

Operation Systems

Standard Support	Linux Yocto Ubuntu Android
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Block Diagram



Environmental and Mechanical

Enclosure Material	Metal
Dimensions	104 (W) x 80 (H) x 34 (D) mm
Weight	280 grams
Temperature	Commercial: 0° to +50° C
Relative Humidity	10 to 90 %
MTBF	50 000 Hours
Shock	15G half-sine 11 ms duration
Vibration	1 Grms random 5-500Hz hr/axis

Certification and Compliance

Certification	Compliant with CE / FCC / RoHS / REACH directives
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Ordering Information

PICO-NYMPH-IMX6DL-SYSTEM

NXP i.MX6 DualLite Development Board with 1GB DDR3, 8GB eMMC and Wi-Fi + BT wireless connectivity including MHP4 antenna, USB Type-C and Micro USB cables, and 2-pin Micro-Fit 3.0 DC power latch cable.



PICO-NYMPH-IMX6Q-SYSTEM

NXP i.MX6 Quad Development Board with 1GB DDR3, 8GB eMMC and Wi-Fi + BT wireless connectivity including MHP4 antenna, USB Type-C and Micro USB cables, and 2-pin Micro-Fit 3.0 DC power latch cable.

