

PICO-HOBBIT



Main Features

- The PICO-HOBBIT reference design is compatible with Intel Edison and TechNexion Pico modules and add a variety connectivity to the Pico module making it the ideal candidate for IoT (Internet of Things) applications such as drones, wearables, appliances and robotics.
- Schematics, design files, board files and BOM lists of PICO-HOBBIT are available and can be downloaded from the TechNexion homepage.

EDISON

Power	SDIO	I ² S	SPI	PWM
	USB OTG	UART	I ² C	GPIO

EXP-A

LVDS	RMII RGMII
TTL	

EXP-B

CAN	PCIe	HDMI	SATA
I ² C	USB HOST	MIPI	

Specifications

Core System

System-on-Module Compatible with TechNexion Pico Connectors (3x 70-pin Hirose Connector)

Connectivity

Network Micrel KSZ8084RNB Fast Ethernet LAN
Atheros AR8035 Gigabit LAN

Connector RJ-45 LAN Connector

Expansion

Storage micro SD cardslot

USB USB 2.0 Host Connector
USB OTG Type C Connector

Expansion Headers Single Channel LVDS
24bit TTL RGB
GPIO
SPI
I²C
USB

Mikrobus GPIO
UART
SPI
I²C
PWM
ADC

Video

Internal Display 24-bit TTL RGB signals (expansion header)
Single Channel LVDS (expansion header)
MIPI DSI Display on 33-pin FPC Connector
MIPI CSI signals on 33-pin FPC Connector

Camera

Audio

Audio Codec NXP SGTL5000

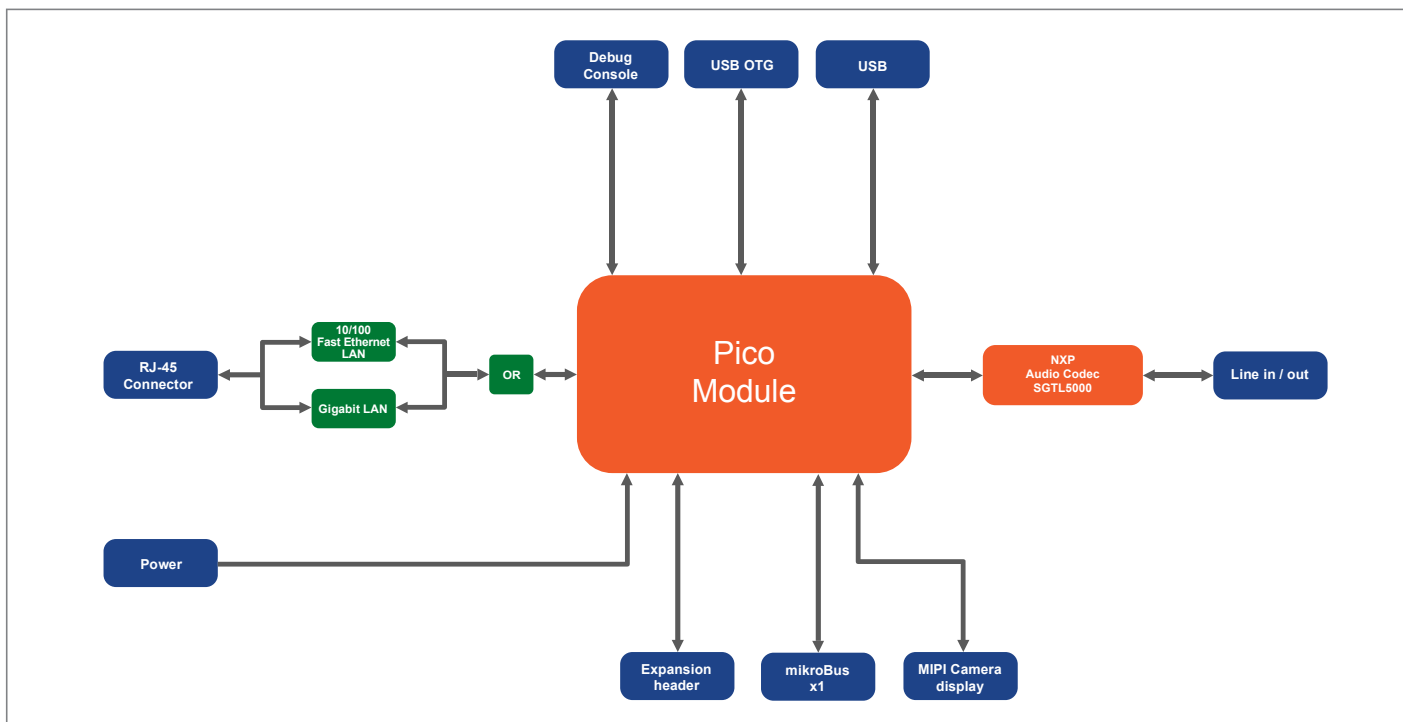
Audio Connectors CTIA compliant 3.5 mm audio jack

Power Specifications

Input Power 5V DC +/- 5%

Power Connector 5.5 / 2.1mm barrel jack

Block Diagram



Environmental and Mechanical

Temperature	Commercial : 0° to 60° C
Humidity	10 to 90%
Dimensions	100 x 45 mm 3 ¹⁵ / ₁₆ in x 1 ⁹ / ₁₆ in
MTBF	>100,000 hours
Weight	30 grams
Shock	50G/25ms
Vibration	20G/0-600 Hz

Ordering Information

PICOHOBBITFL
PICO HOBBIT CARRIER BOARD WITH FAST ETHERNET LAN

PICOHOBBITGL
PICO HOBBIT CARRIER BOARD WITH GIGABIT LAN

* Feel free to contact us for custom tailored Carrier Board request for your projects.

Dimensions

(units in mm)

