PICO-HOBBIT

Main Features

- The PICO-HOBBIT reference design is compatible with Intel Edison and TechNexion Pico CoM modules and add a variety connectivity to the Pico CoM making it the ideal candidate for IoT (Internet of Things) applications such as drones, wearables, appliances and robotics.

- The complete schematics, design files, board files and BOM lists of PICO-HOBBIT are available and can be downloaded from the TechNexion homepage.

EDISON

| Power 3.3~4.5V | SDIO | I²S | SPI | PWM |
| | USB OTG | UART | I²C | GPIO |

EXP-A

| LVDS | RGMII |
| TTL | |

EXP-B

| CAN | PCIe | HDMI | SATA |
| I²C | USB HOST | MIPI | |

Specifications

Core System

System-on-Module	Compatible with Intel Edison Connector (1x 70-pin Hirose Connector) 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	1x micro SD cardslot
USB	1x USB 2.0 Host Connector 1x USB 2.0 OTG Connector
Expansion Pin Headers	CAN GPIO PWM I²C SPI UART Single Channel LVDS 24bit TTL RGB

Video

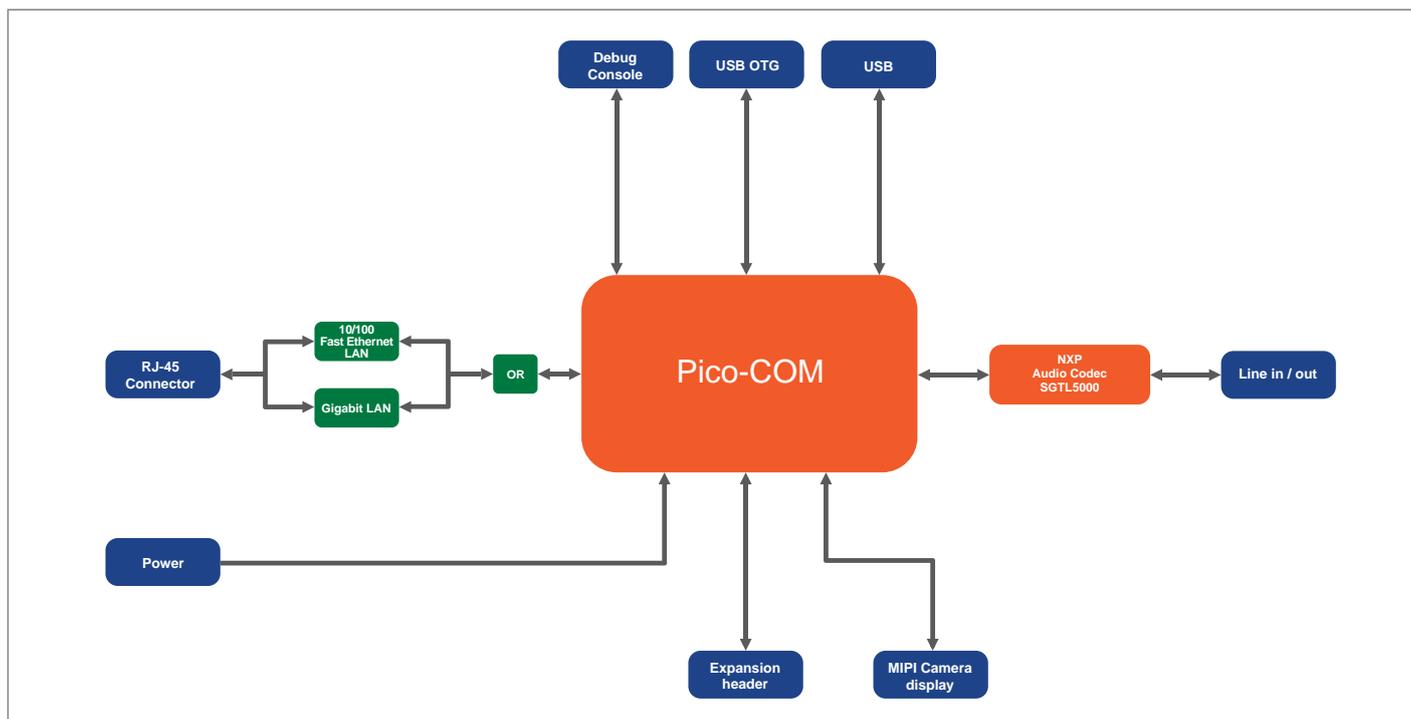|	
Internal Display	Single Channel LVDS (expansion header) MIPI DSI Display on 33-pin FPC Connector
Camera	MIPI CSI signals on 33-pin FPC Connector

Audio

Audio Codec	NXP SGTL5000
Audio Connectors	1x 3.5 mm jack Stereo Audio in / out

Power Specifications

Input Power	5 VDC +/- 5%
Power Connector	5.5 / 2.1mm barrel jack

Block Diagram

Debug Console — USB OTG — USB

RJ-45 Connector — 10/100 Fast Ethernet LAN / Gigabit LAN — OR — Pico-COM — NXP Audio Codec SGTL5000 — Line in / out

Power

Expansion header — MIPI Camera display

Environmental and Mechanical

Temperature	Commercial : 0° to 60° C
Humidity	10 to 90%
Dimensions	100 x 45 mm
	$3^{15}/_{16}$in x $1^{49}/_{64}$in
MTBF	>100,000 hours
Weight	30 grams
Shock	50G / 25ms
Vibration	20G / 0-600 Hz

Ordering Information

PICOHOBBITFL
PICO-HOBBIT Baseboard for PICO-COM 10/100 Megabit LAN
PICOHOBBITGL
PICO-HOBBIT Baseboard for PICO-COM Gigabit LAN

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

Dimensions

(units in mm)

100
45

2015-05. All specifications are subject to change without notice.

PICO System-on-Modules and DWARF Platform · TechNexion