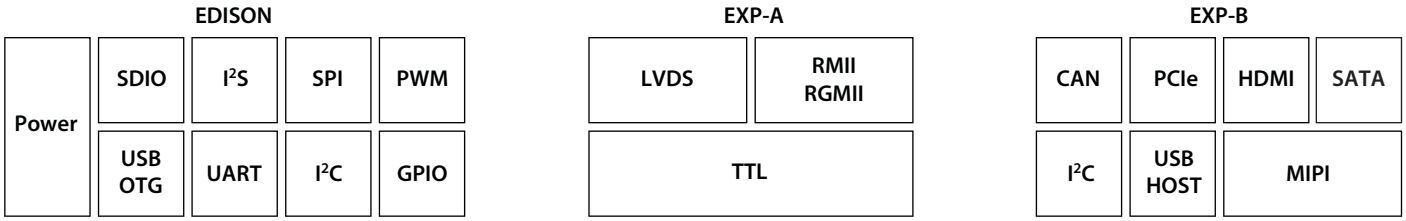
PICO-DWARF



Main Features

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



Specifications

Core System

Board-to-Board Connector	Edison compatibile connector PICO 70-pin Hirose connectors
System on Module	PICO SOM
Debug Interface	UART Interface by Through-hole

Connectivity

Network LAN	Atheros AR8035 (optional) Gigabit LAN Micrel KSZ8084RNB (optional) Fast Ethernet LAN

Internal Headers

Internal Display	1x 24-bit TTL RGB signals (expansion header) 1x single channel LVDS (expansion header) MIPI DSI signals on 33-pin FPC connector
Expansion Headers	GPIO I²C PWM SATA SPI UART

External Connectors

External Display	1x HDMI
Audio Connectors	1x 3.5mm jack Microphone 1x 3.5mm jack Stereo Audio in 1x 3.5mm jack Stereo Audio out
Network	1x RJ45
USB	1x USB 2.0 Host 1x USB 2.0 OTG
SD Cardslot	1x microSD cardslot

Audio

Audio Codec	NXP SGTL5000

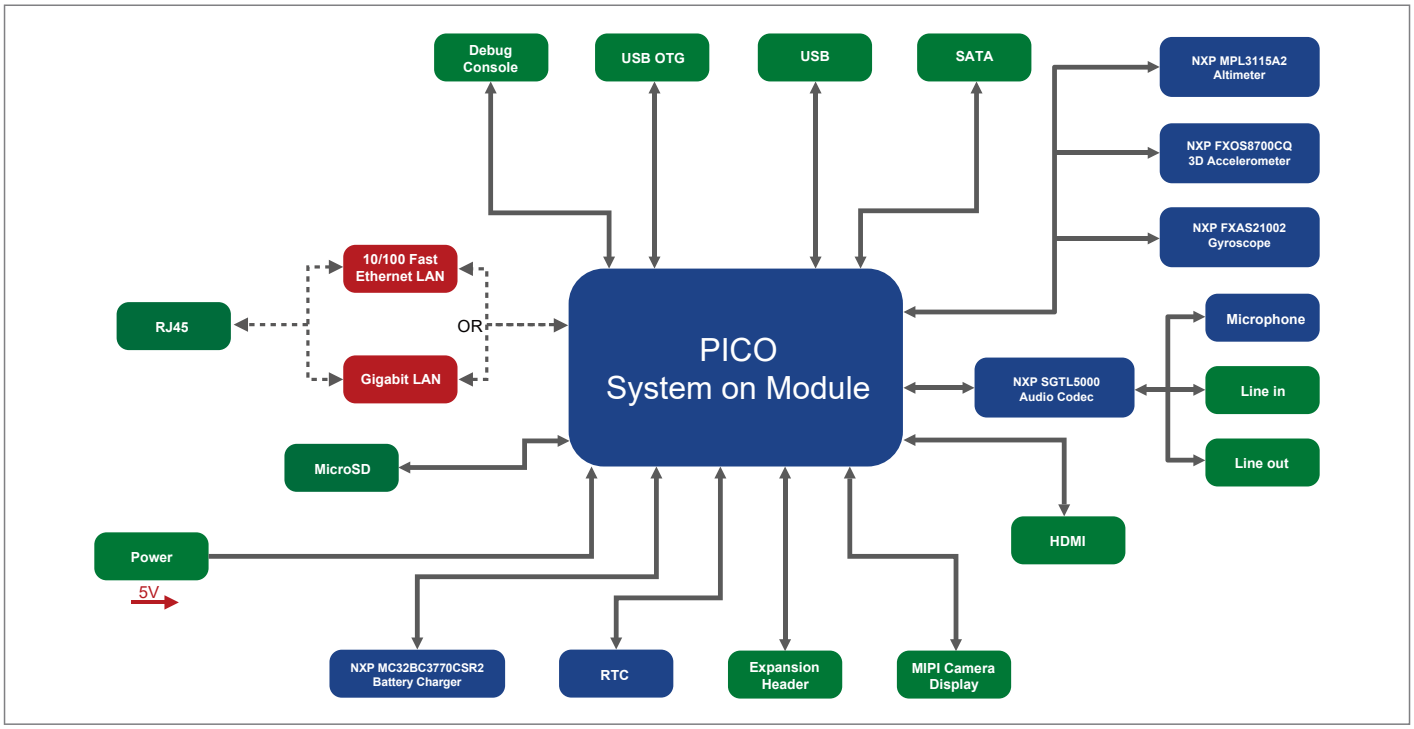
Sensors

Altimeter	NXP MPL3115A2
3D Accelerometer	NXP FXOS8700CQ
Gyroscope	NXP FXAS21002
RTC	maxim integrated DS1337+ 2-pin header battery connector

Power Specifications

Power Input	5V DC +/-5%
Power Connector	5.5/2.1mm barrel jack
Battery Charging Circuit	NXP MC32BC3770CSR2 single cell
Power Consumption	Depending on Configuration

Block Diagram



Environmental and Mechanical

Dimensions	95 x 95 mm
Weight	40 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-DWARF-xx

	Code	Description
Network	FL	Fast Ethernet
	GL	Gigabit Ethernet

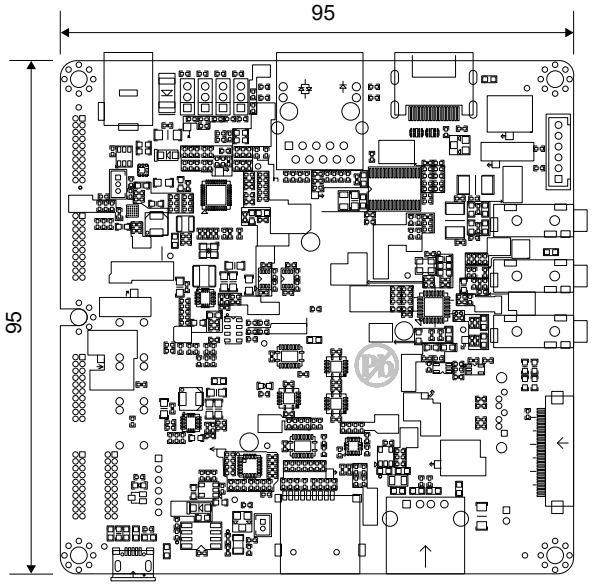
PICO-DWARF-FL
Pico DWARF Carrier Board with Fast Ethernet LAN

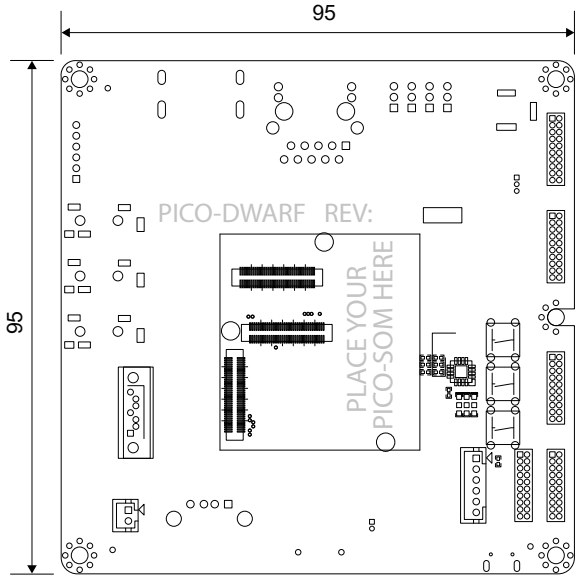
PICO-DWARF-GL
Pico DWARF Carrier Board with Gigabit Ethernet LAN

* Feel free to contact us for customization requests.

Dimensions

(units in mm)





2017-07-05. All specifications are subject to change without notice.