PICO-DWARF

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Main Features

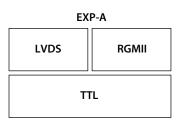
- The PICO-DWARF reference design is compatible with Intel Edison and TechNexion Pico SoM modules and add a variety of sensors and connectivity to the Pico SoM making it the ideal candidate for IoT (Internet of Things) applications such as drones, wearables, appliances and robotics.
- The complete schematics,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

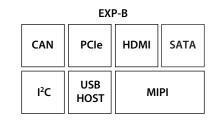


HDMI connector

Freescale SGTL5000

EDISON				
Power 3.3~4.5V	SDIO	l²S	SPI	PWM
	USB OTG	UART	l²C	GPIO





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)

Atheros AR8031 Gigabit LAN

RJ-45 LAN Connector

Connectivity

Network Connector

Expansion

Storage

USB

Expansion Pin Headers

1x SATA data + power connector 1x micro SD cardslot 1x USB 2.0 Host connector 1x USB 2.0 OTG connector Single Channel LVDS 24-bit TTL RGB PCle CAN GPIO PWM I²C SPI UART

Video

External Display Internal Display

Camera

Audio

Audio Codec **Audio Connectors**

Power Specifications

Input Power **Power Connector**

5 VDC +/- 5% 5.5 / 2.1mm barrel jack Battery Charging Circuit Freescale MC32BC3770CSR2 Single Cell Lipo Battery Charging Circuit 2 pin header

Single Channel LVDS (expansion header)

MIPI DSI Display on 33-pin FPC Connector

MIPI CSI signals on 33-pin FPC connector

24-bit TTL RGB (expansion header)

1x 3.5 mm jack Stereo Audio in 1x 3.5 mm jack Stereo Audio out 1x 3.5 mm jack Microphone

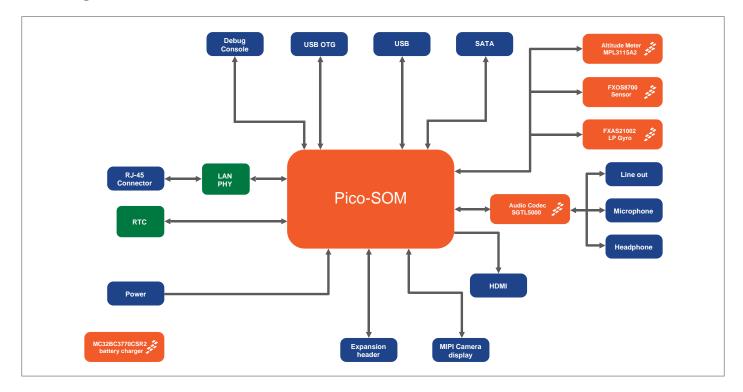
Battery Connector

Sensors

Altimeter **3D Accelerometer** Gyroscope RTC

Freescale MPL3115A2 Freescale FXOS8700CQ Freescale FXAS21002 DS1337+ with backup battery

Block Diagram



Environmental and Mechanical

Temperature Humidity Dimensions

MTBF

Weight

Vibration

Shock

Commercial : 0° to 60° C 10 to 90% 95 x 95 mm 3¾ x 3¾ inch >100,000 hours 40 grams 50G / 25ms 20G / 0-600 Hz

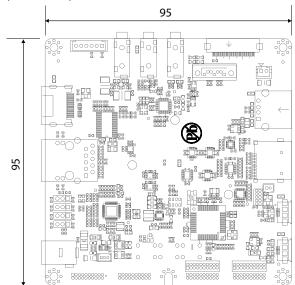
Ordering Information

PICODWARF PICO-DWARF Baseboard for PICO-SOM

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

Dimensions

(units in mm)





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