

Processor

Freescale iMX8M Mini/Nano/PLUS

Pico ITX Form Factor

SMARC 2.11 compliant

Software

Linux, Yocto

APPLICATION AREAS



INDUSTRIAL



AUTOMOTIVE



MEDICAL

SBC Smarc 2.0 compact carrier board

The SBC FRIDA i.MX8M is designed for compact designs. It's compliant with SMARC 2.0. and designed to work in Industrial, Automotive and consumer environment.

Main Features are:

- ★ Compact Design 100x72mm
- ★ MIPI CSI-2 camera interface.
- ★ LVDS/DSI/HDMI video interface
- ★ Raspberry Pi I/O Connector
- ★ 9-36V Power Input
- ★ Extended longevity up to 15 years.

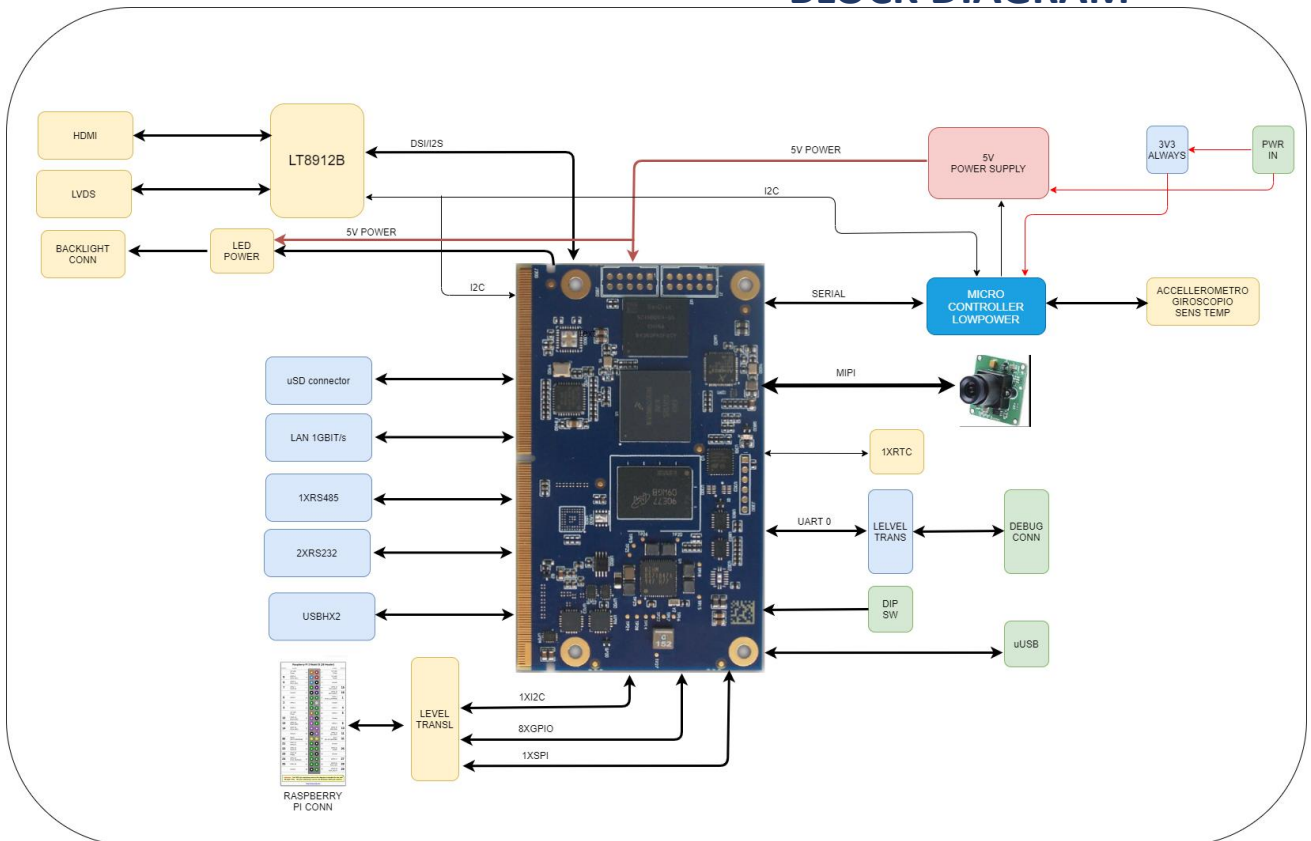


FEATURES OF THE SBC

	SBC SMARC SMALL
Arm® Core	4 X Cortex-A53, 1 X Cortex-M4/M7
DRAM	LPDDR4 - 3600 up to 4GB
eMMC	4GB, ver 5.0 (HS400) expandable up to 64GB
TPM	Trusted Platform Module compliant 2.0
GPU	3D GPU (2x shader, OpenGL® ES2.0/3.0/3.1, OpenCL™ 1.2, Vulkan®)
CSI	1x MIPI CSIx4
VIDEO	1x LVDS up to 1080P60fps 1x HDMI up to 1080P60fps 1x DSI up to 1080P60fps

	Anita i.MX8M Nano SOM
Ethernet	1 x Gigabit
USB	2 x USB 2.0 1 x USB 2.0 OTG
Serial Port	1x RS485; 2x RS232
uSD	1x MicroSD Connector
Power Supply	9-36V DC
Operating System	Linux 5.4.3, Yocto Zeus
Dimintions	100x72mm
Temperature	-40° to +105° C

BLOCK DIAGRAM



ORDERING

ORDERING CODE	DESCRIPTION	Comments
FDA_000_0_0	Full feature board	Standard product