

System On Module iW-RainboW-G46M i.MX 8XLite OSM-SE LGA Module



The i.MX 8XLite SoC based LGA Module is designed as per the Open Standard Module™ specification (OSM). It integrates NXP's i.MX 8XLite offerings Dual/Solo Cortex A35 @ 1.2GHz, advanced multicore processing with V2X acceleration supported by Arm® cores.

The i.MX 8XLite OSM LGA module is aimed to offer for Automotive applications, Telematics, V2X Communications, building control and robotics requiring time-sensitive networking (TSN) Ethernet or controller area network (CAN).

iW-RainboW-G46M

HIGHLIGHTS

AEC-Q104*

Supports Cortex-A35 cores

Supports 1 x 1Gb Ethernet with AVB

i.MX 8XLite Dual/Solo with 64-bit ARMv8 Architecture

10+ years of Product Longevity Program

OSM v1.0 Size-SE LGA Module with 30mm x 30mm form factor

SPECIFICATIONS

SoC

i.MX 8XLite Dual: 2 X Cortex - A35,
1 X Cortex - M4F

i.MX 8XLite Solo: 1 X Cortex - A35,
1 X Cortex - M4F

Memory & Storage

LPDDR4 -2GB (Expandable)

eMMC Flash - 8GB (Expandable)

OSM LGA Features

RGMII x 2

USB 2.0 OTG x 1

USB 2.0 HOST x 1

PCIe x 1

CAN x 2

UART x 3 (1 is optional)

18-bit RGB

I2S x 1

SPI x 1

I2C x 2

JTAG x 1

GPIOs

OS Support

Linux 5.4.24 (or higher)

Android 11 (or higher)

Power Input

5V, 2.5A through OSM LGA

Form Factor

30mm x 30mm (Size SE)

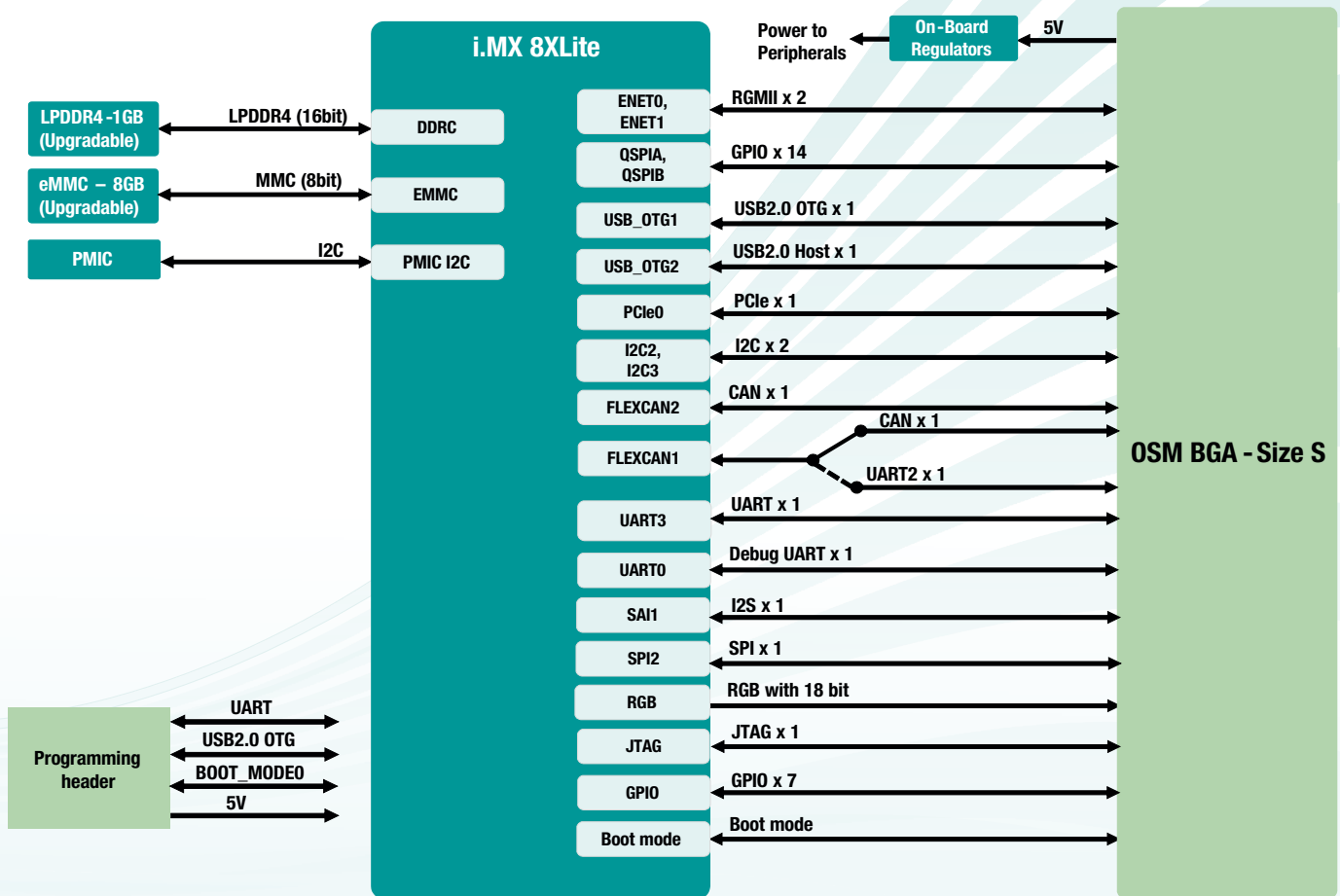
Operating Temperature

-40°C to +105°C (Automotive)

Environment Specification

REACH & RoHS3 Compliant

i.MX 8XLite based OSM Block Diagram



OS SUPPORT

Linux 5.4.24 (or higher)
Android 11 (or higher)

DELIVERABLES

i.MX 8XLite OSM - SE Module
Board Support Package
User Manual

OPTIONAL KITS/Modules

i.MX 8XLite OSM - SE Development Kit
Heat Sink

CUSTOM DEVELOPMENT

BSP Development/OS Porting
Custom SOM/Carrier Development
Custom Application/GUI Development
Design Review and Support

iWave Systems Technologies is an ISO 9001:2015 certified company, head quartered in Bangalore India established in the year 1999. The company focuses on providing embedded solution and services for Industrial, Medical, Automotive and various other Embedded Computing applications. iWave Systems offers wide range of System On Modules and Single Board Computers built using wide range of CPU and FPGA SoC platforms with different form factors such as Qseven, SMARC, SODIMM and HPC by closely working with Tier-1 silicon companies such as NXP, Xilinx, Intel etc.

iWave Systems offers various state of art ready ODM solutions such as Connected Telematic Control Unit / OBD II devices for the automotive edge analytics, Comprehensive ARINC818 solutions for the low latency Aerospace applications and Rugged IP rated performance scalable HMI solutions for Industrial applications.

iWave Systems also provides comprehensive Engineering design services involving Embedded Hardware, FPGA and Software development. iWave offers carrier board and custom hardware development with manufacturing and certification services. iWave's Hardware expertise spans complex board design up to 30 layers; Analog, Digital & RF Designs; FPGA Development up to 3+ million gates and VHDL / Verilog RTL Development & Verification. Our Software expertise ranges from OS Porting, Firmware & Device Drivers Development and Wireless & Protocol Stacks.

**Optional items not included in the standard deliverables.*

Note: iWave reserves the right to change these specifications without notice as part of iWave's continuous effort to meet the best in breed specification. The registered trademarks are proprietary of their respective owners.

i.MX 8XLite OSM-SE LGA Module

The device can be ordered online from the iWave Website

<https://www.iwavesystems.com/product/i-mx-8xlite-osm-se-lga-module/>
Or from our Local Partners in your region

<http://www.iwavesystems.com/about-us/business-partner.html>

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