

Single Board Computer iW-RainboW-G46S i.MX 8XLite Pico ITX SBC



The i.MX 8XLite Pico ITX SBC integrates NXP's i.MX 8XLite offerings Dual/ Solo Cortex A35 @ 1.2GHz and 1 x Cortex-M4F cores with on board Dual 10/100/1000 Mbps Ethernet PHY.

The i.MX 8XLite SBC is aimed to offer for Automotive applications, building control and robotics requiring controller area network (CAN). With the 100mm x 72mm Pico-ITX form factor, the SBC is packed with all the necessary on-board connectors.

iW-RainboW-G46S HIGHLIGHTS

i.MX 8XLite Dual/Solo CPU

64-bit ARMv8 Architecture

Dual 1000/100/10 Mbps Ethernet

10+ years of Product Longevity Program

SPECIFICATIONS

CP	U
	IX 8XLite Dual: 2 x Cortex-A35, Cortex-M4F
	IX 8XLite Solo: 1 x Cortex-A35, Cortex-M4F
Me	mory & Storage
LPI	DDR4 -2GB
eM	MC Flash - 8GB (Expandable)
Ne	twork & Communication
_	gabit Ethernet x2 (Dual RJ45 Mag-jack nnector)
US	B 2.0 OTG (micro AB Receptacle Connector)
RS	232 Header x 1 ¹
US	B Header x 1
CA	N Header x 1
Au	dio/Video Features
3.5	mm Audio IN/OUT Jack
Spe	eaker Out Header

CAN x1 Port UART x 1 (optional) Miscellaneous Interfaces Debug UART Connector RTC Battery Connector JTAG Header M.2 Connector Key B Connector OS Support Linux 6.1.22 Power Input: 12V,2A input through External Adaptor ² Form Factor: 100mm x 72mm Operating Temperature: -40°C to +85°C Environment Specification:
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Operating Temperature: -40°C to +85°C
-40°C to +85°C
Environment Specification:
REACH & RoHS3 Compliant

Note:

1.RS232 is supported without CTS/RTS

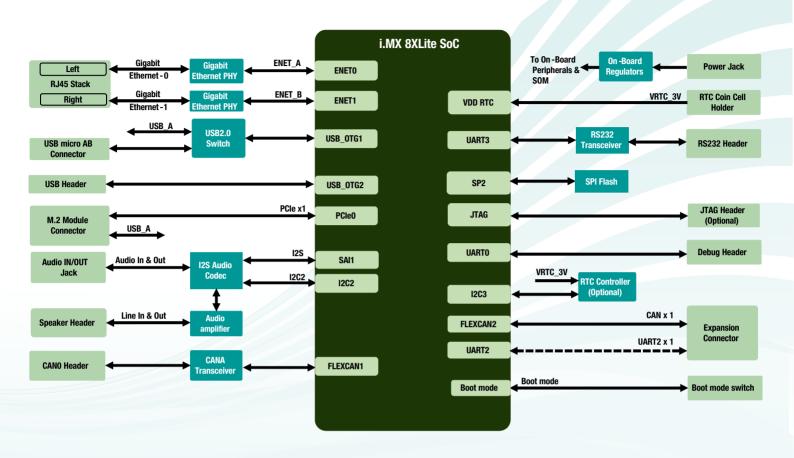
2. The i.MX 8XLite OSM based SBC can support input power 7V to 24V. By default, it is designed to support 12V.







i.MX 8XLite Pico ITX SBC Block Diagram



OS SUPPORT

Linux 5.4.24 (or Higher)

DELIVERABLES

i.MX 8XLite Pico ITX SBC Board Support Package User Manual

OPTIONAL KITS/Modules

Heat Sink Enclosure

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.

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*Optional items not included in the standard deliverables.

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i.MX 8XLite Pico ITX SBC

The device can be ordered online from the iWave Website https://www.iwavesystems.com/product/i-mx-8xlite-pico-itx-sbc/
Or from our Local Partners in your region
http://www.iwavesystems.https://www.iwavesystems.com/

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