



## SOM-uQ7-MX6-2

μQseven® standard module with NXP i.MX 6 Processors

### Small, flexible OTS module at proprietary costs



#### HIGHLIGHTS



**CPU**  
Single and Dual Core Lite (Arm® Cortex®A9 Cores)



**GRAPHICS**  
2D/3D dedicated graphics processors



**CONNECTIVITY**  
FastEthernet; GPIOs



**MEMORY**  
up to 1GB DDR3L on-board

Available in Industrial Temperature Range



#### MAIN FIELDS OF APPLICATION

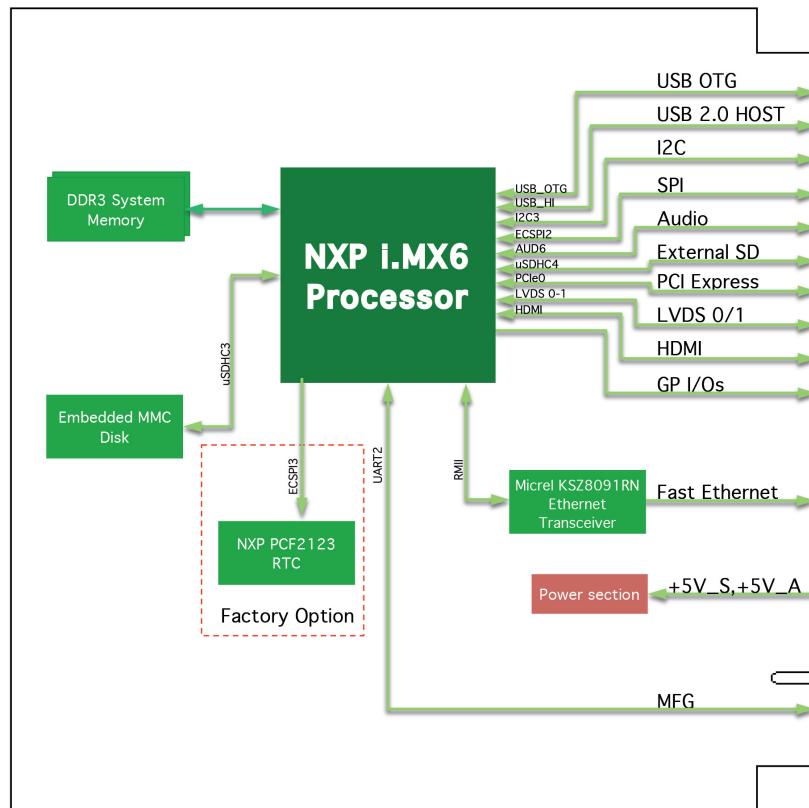


Smart Devices

#### FEATURES

	NXP i.MX 6 Family, based on Arm® Cortex®-A9 processors - <b>i.MX6S Solo</b> - Single core up to 1GHz - <b>i.MX6DL Dual Lite</b> - Dual core up to 1GHz per core		On the card edge connector, many pins can be used as General Purpose I / Os or to implement some(*) of the following extra functionalities: - Additional SD interface - Up to 4 UARTs - CAN interface - Watchdog(s) - I2C interfaces - PWM outputs - SPI interface - Additional Audio interface (*) not all the combinations are allowed simultaneously
	2		+5V <sub>DC</sub> ± 5% Optional Low Power RTC
	Up to 1GB DDR3L on-board (up to 512MB with i.MX6S Solo) 32-bit I/F		Linux Yocto
	Dedicated 2D Hardware accelerator Dedicated 3D Hardware accelerator, supports OpenGL® ES2.0 3D Supports 2 independent displays		0°C ÷ +60 °C (Commercial version) -40°C ÷ +85°C (Industrial version)
	1 x LVDS Dual Channel or 2 x LVDS Single Channel 18 / 24 bit interface HDMI® Interface		40 x 70 mm (1.57" x 2.76")
	LVDS, resolution up to 1920x1200 HDMI®, resolution up to 1080p	<p>*Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider application-specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.</p>	
	On-board eMMC drive, up to 8 GB SD / MMC / SDIO interface Internal SPI Flash for booting		
	FastEthernet (10 / 100 Mbps) interface		
	1 x USB OTG interface 1 x USB 2.0 Host interface		
	1 x PCI-e x1 lane (only PCI-e 1.1 and Gen2 are supported)		
	I2S / AC'97 Audio interface		

## BLOCK DIAGRAM



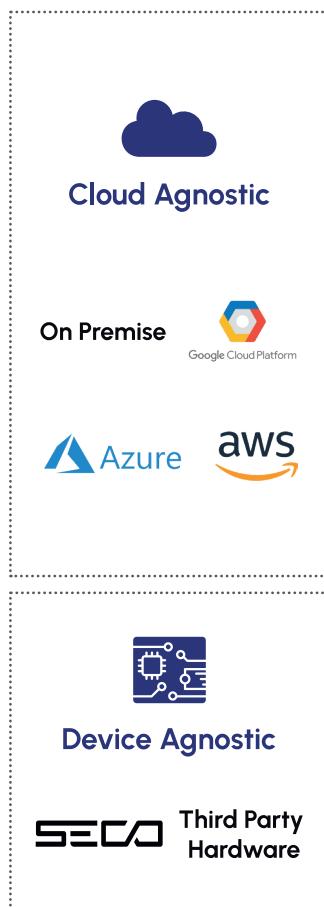
# Streamline and expedite your edge computing implementations

## EDGEHOG OS

A flexible operating system that adapts to your needs, thanks to the customization tool and Docker support. Reliability and security are built-in through a dual-partition system and native integration with Exein's robust AI-based protection.

## DATA ORCHESTRATION

Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.



## DEVICE MANAGER

Update, configure, and manage remote devices. Optimize time and costs to maximize operational efficiency and security without the need for costly field interventions.

## PORTAL

Analyze data from remote devices, customize the user experience with applications tailored to user needs, and manage user rights, company access, and tenant privileges.

## SERVICES

Custom Apps



Device Manager

»Edgehog

Data Orchestration

»Astarte

Portal

## EDGEHOG OS

Containers

SDK



Double Partition

Device Manager Agent

Incremental Updates

Immutable OS

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EDGEHOG OS



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