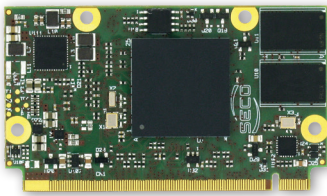




SOM-uQ7-MX6-2

μQseven® standard module with NXP i.MX 6 Processors

Small, flexible OTS module at proprietary costs



HIGHLIGHTS

<b>CPU</b> Single and Dual Core Lite (Arm® Cortex®A9 Cores)	<b>CONNECTIVITY</b> FastEthernet; GPIOs
<b>GRAPHICS</b> 2D/3D dedicated graphics processors	<b>MEMORY</b> up to 1GB DDR3L on-board

Available in Industrial Temperature Range



MAIN FIELDS OF APPLICATION



Smart Devices

FEATURES

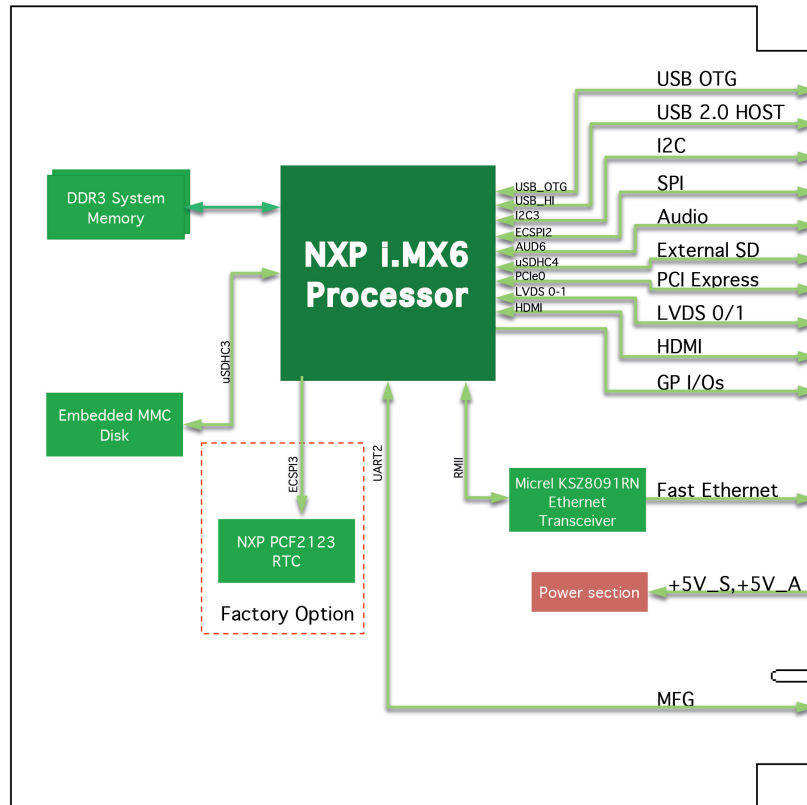
<b>Processor</b>	NXP i.MX 6 Family, based on Arm® Cortex®-A9 processors - <b>i.MX6S Solo</b> - Single core up to 1GHz - <b>i.MX6DL Dual Lite</b> - Dual core up to 1GHz per core	On the card edge connector, many pins can be used as General Purpose I / Os or to implement some(*) of the following extra functionalities: - 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 Power Management Signals
<b>Max Cores</b>	2	
<b>Memory</b>	Up to 1GB DDR3L on-board (up to 512MB with i.MX6S Solo) 32-bit I/F	
<b>Graphics</b>	Dedicated 2D Hardware accelerator Dedicated 3D Hardware accelerator, supports OpenGL® ES2.0 3D Supports 2 independent displays	
<b>Video Interfaces</b>	1 x LVDS Dual Channel or 2 x LVDS Single Channel 18 / 24 bit interface HDMI® Interface	
<b>Video Resolution</b>	LVDS, resolution up to 1920x1200 HDMI®, resolution up to 1080p	
<b>Mass Storage</b>	On-board eMMC drive, up to 8 GB SD / MMC / SDIO interface Internal SPI Flash for booting	
<b>Networking</b>	FastEthernet (10 / 100 Mbps) interface	
<b>USB</b>	1 x USB OTG interface 1 x USB 2.0 Host interface	
<b>PCI-e</b>	1 x PCI-e x1 lane (only PCI-e 1.1 and Gen2 are supported)	
<b>Audio</b>	I2S / AC'97 Audio interface	
<b>Power Supply</b>	+5V <sub>DC</sub> ± 5% Optional Low Power RTC	*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.
<b>Operating System</b>	Linux Yocto	
<b>Operating Temperature*</b>	0°C ÷ +60 °C (Commercial version) -40°C ÷ +85°C (Industrial version)	
<b>Dimensions</b>	40 x 70 mm (1.57" x 2.76")	

Information subject to change. Please visit www.edge.seco.com to find the latest version of this datasheet

# SOM-uQ7-MX6-2

µQseven® standard module with NXP i.MX 6 Processors

## BLOCK DIAGRAM



Information subject to change. Please visit [www.edge.seco.com](http://www.edge.seco.com) to find the latest version of this datasheet

# 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

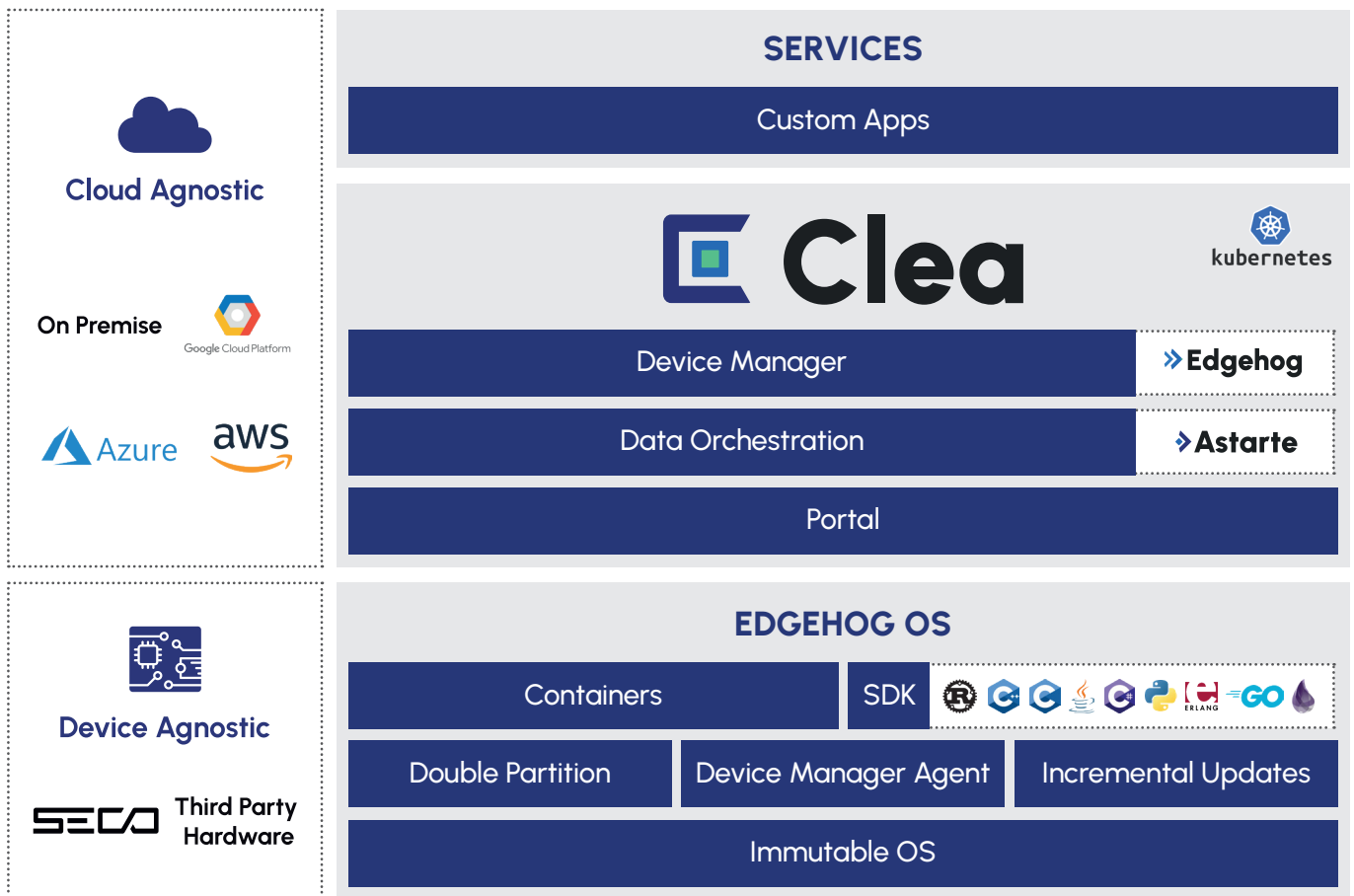
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

## 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.



Scan to know more about our solution

EDGEHOG OS



CLEA DOCS

