

ALKES

Qseven® standard module with NXP i.MX 6 Processor

Optimal balance of performance and power





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Single-, Dual- and Quad- Core (Arm® Cortex® -A9

2D/3D dedicated graphics processors

(I) Available in Industrial Temperature Range

























CONNECTIVITY

MEMORY

2x serial ports; CAN port

up to 4GB DDR3L on-board



Automotive

Avionics

Digital Signage -

Energy

Industrial Automation and Control

Robotics

Surveillance

Transportation

NXP i.MX 6 Family, based on Arm® CORTEX-A9 processors

- i.MX6S Solo Single core up to 1GHz
- i.MX6DL Dual Lite Dual core up to 1GHz per core i.MX6D Dual Dual core up to 1GHz per core
- i.MX6DP DualPlus Dual core up to 1GHz per core
- i.MX6Q Quad Quad core up to 1GHz per core





Processor

Memory Up to 4GB DDR3L on-board (up to 2GB with i.MX6S)

Dedicated 2D Hardware accelerator Dedicated 3D Hardware accelerator, supports OpenGL® ES 2.0 3D Dedicated Vector Graphics accelerator supports OpenVG™ (only i.MX6D, i.MX6DP and i.MX6Q) Graphics Enhanced 2D and 3D graphics with i.MX6DP

Supports up to 3 independent displays with i.MX6D, i.MX6DP

Supports 2 independent displays with i.MX6DL and i.MX6S 1 x LVDS Dual Channel or 2 x LVDS Single Channel 18 / 24 bit interface

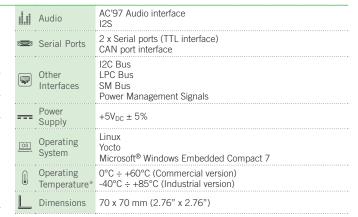
Video Interfaces HDMI Interface 1.4 Video Input Port / Camera Connector

LVDS, up to 1920x1200 Video Resolution HDMI, up to 1080p

On-board eMMC drive, up to 32 GB SD / MMC / SDIO interface Mass Storage 1 x μSD Card Slot on-board 1 x External SATA Channel (only available with i.MX6D and i.MX6Q)

品 Networking Gigabit Ethernet interface 1 x USB OTG interface ← USB

4 x USB 2.0 Host interfaces 1 x PCI-e x1 lane (only PCI-e 1.1 and Gen2 are supported) PCI-e



*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 applicationspecific cooling solutions for the final system to keep the heatspreader temperature



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BLOCK DIAGRAM

