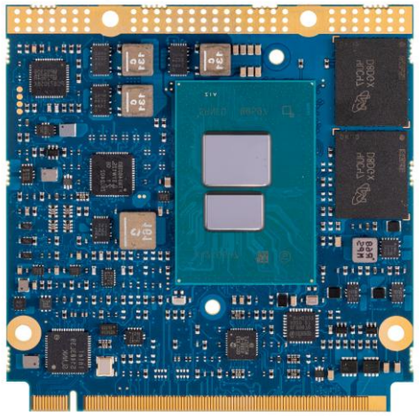
Qseven ASL

This Engicam module developed on Qseven® standard is based on Intel® Amston Lake™ processor series, with high-performance multimedia processing, integrated IoT features, for machine learning, connectivity and HMI applications . Qseven ASL is based on Intel Atom® x7000RE Series and Intel® Atom® x7000C Series.



HIGHLIGHTS

- **Intel** Amston Lake
- **GRAPHICS** 2 x LVDS 18/24 bit channels, 1 x HDMI, eDP 1.3, DP
- **MEMORY and STORAGE** Starting from 2GB LDDR4, eMMC, 2 x SATA

APPLICATIONS

Artificial Intelligence · Industrial · Digital Signage Infotainment · Transportation · Automotive · Avionics · Surveillance · Robotics · Biomedical/ Medical devices · Gaming · Home Automation

Windows 10 · Windows IoT

FEATURES

CPU	Intel® Amston Lake
CORES	• Intel Atom® x7000C Series • Intel Atom® x7000RE Series
MEMORY	Up to 16GB @ 4800MT/s LPDDR5
GRAPHICS	UHD Intel, OpenGL 4.6, OpenCL 3.0 , Direct X 12.1, IPU 6
VIDEO INTERFACES	• LVDS 18/24bit up to Full HD • eDP • Display Port up to 4K • HDMI (via DP) up to 4K
VIDEO PROCESSING	• HEVC/ H265, VP9, AV1 dec • HEVC/H265 enc
AUDIO	• I2S i/f • HDA
USB	• 4 x USB 2.0 (Up to 8) • 2 x USB 3.0 (Up to 3)
MASS STORAGE	Starting from 4GB eMMC drive soldered on-board
PERIPHERAL INTERFACES	PCIe 3.0 , UART, I2C, SPI, CAN Bus, Watchdog Trigger, LPC, Thermal Control, Fan Control, SDIO, 2x SATA
OPERATING SYSTEM	• Linux • Windows
NETWORKING	• 1 x 2.5 Gb Ethernet interface
DIMENSIONS	70 x 70 mm
OPERATING TEMPERATURE*	Industrial qualified (-40°C to 105°C Tj)

* Valid for all components except CPU. Customer shall consider junction temperature for CPU. Temperature will widely depend on application. Specific cooling solutions could be necessary for the final system.

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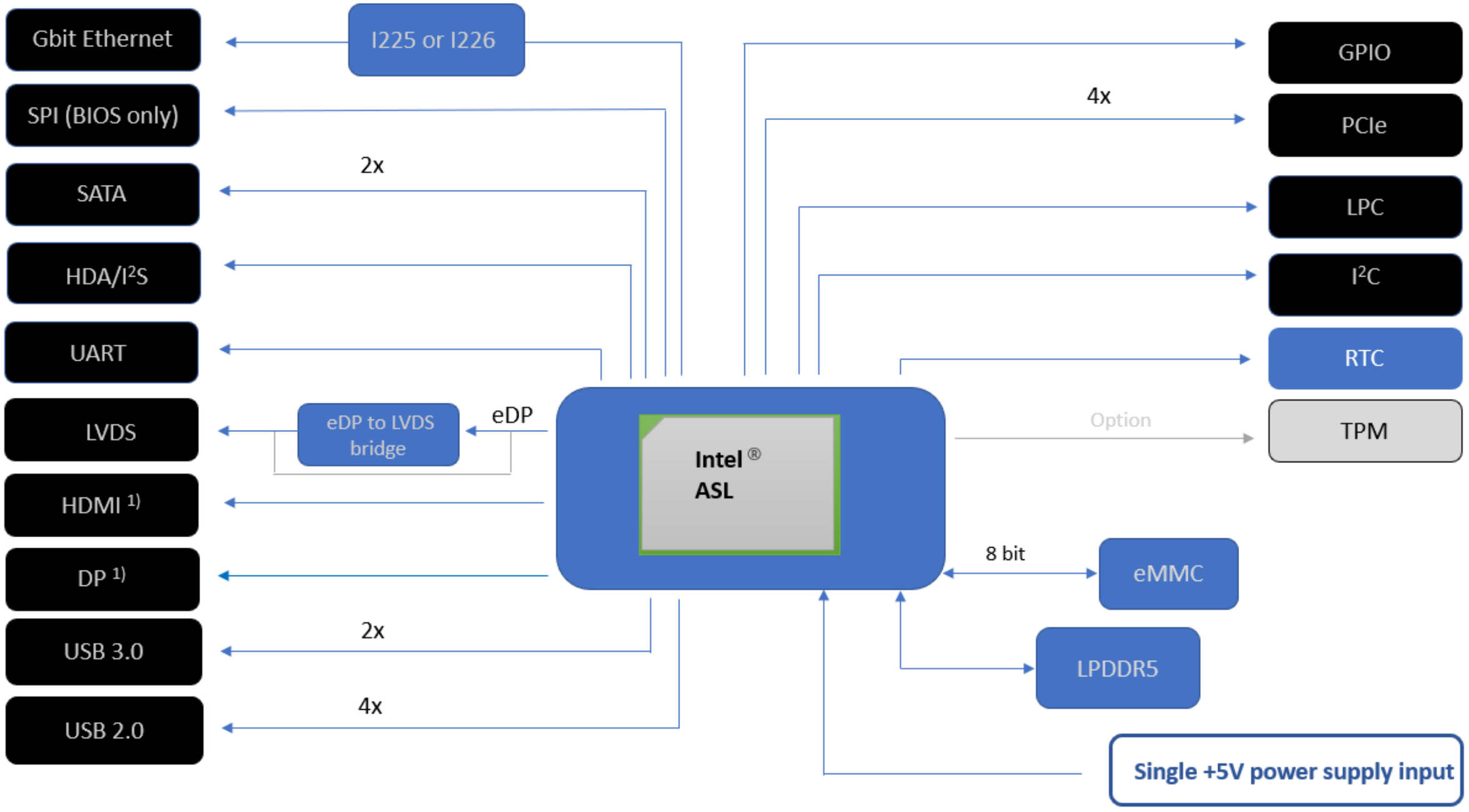
ENGICAM
EMBEDDED SOLUTIONS

Qseven ASL

QSEVEN

BLOCK DIAGRAM



1) HDMI and DP have shared pins. For further information see related chapter on HW manual

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