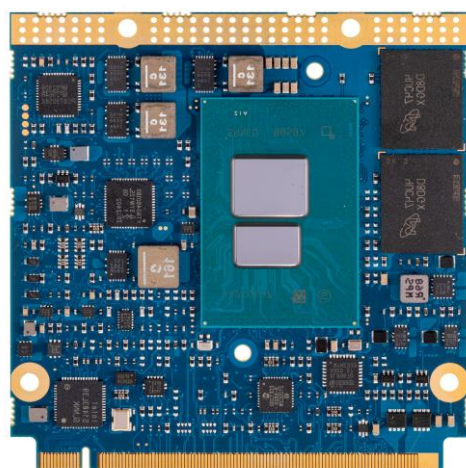


The new Engicam module developed on Qseven® standard is based on Intel® Amston Lake™ processor series, with high-performance multimedia processing, integrated IoT features, for machine learning, connectivity and HMI applications. Qseven ASL is based on Intel Atom® x7000RE Series and Intel® Atom® x7000C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



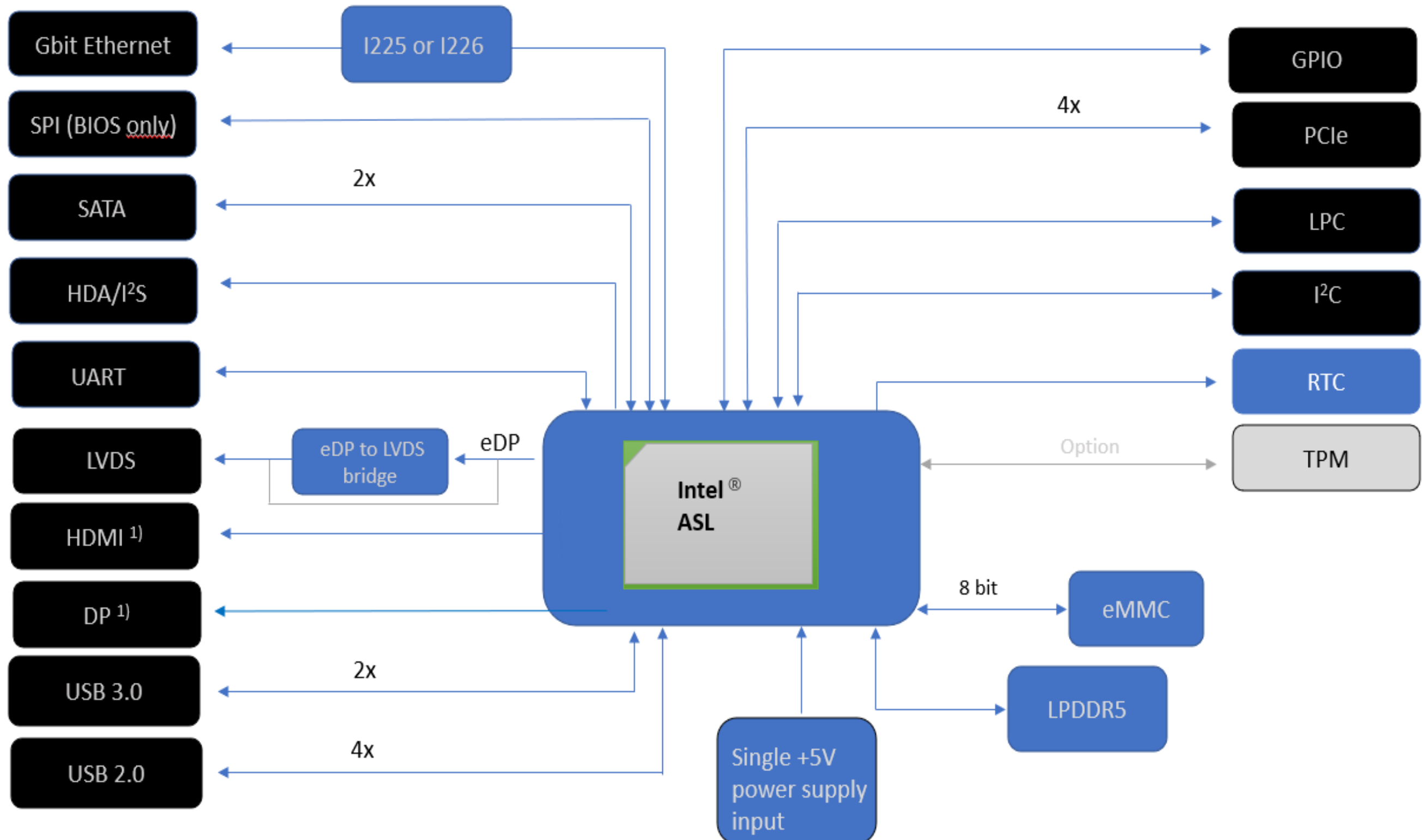
FEATURES



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

BLOCK DIAGRAM



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