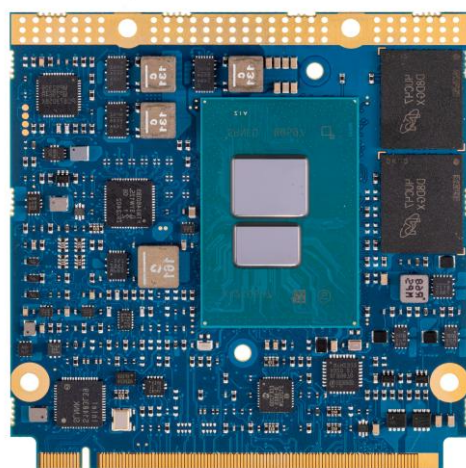


The new Engicam module developed on Qseven® standard is based on Intel® Alder Lake™ processor series, with high-performance multimedia processing, integrated IoT features, for machine learning, connectivity and HMI applications. Qseven ADL-N is based on Intel® Core™ i3 N-Series, Intel Atom® x7000E series and Intel® Processors N Series.



HIGHLIGHTS

- **Intel** Alder 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



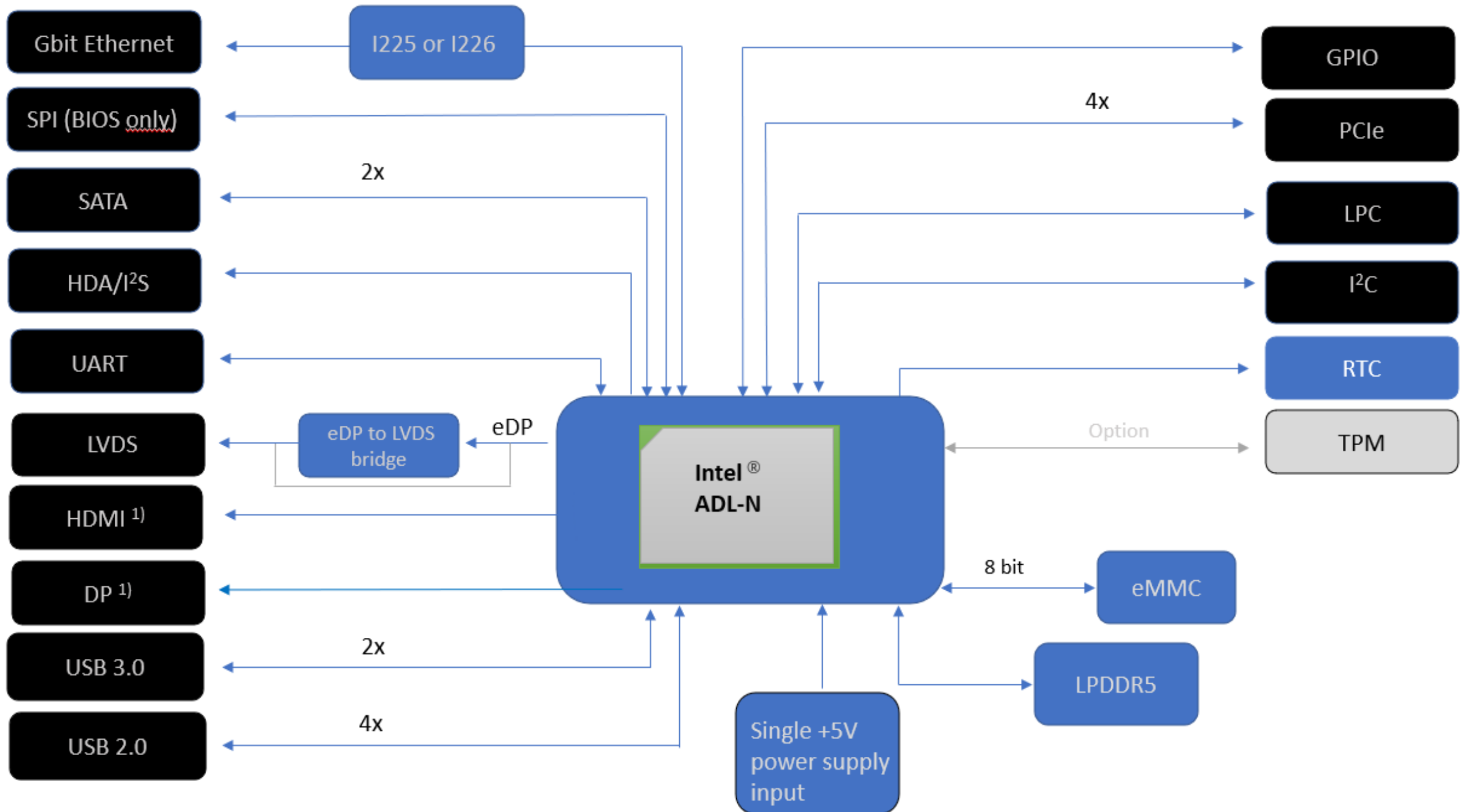
FEATURES



 CPU	Intel® Alder Lake N	 AUDIO	• I2S i/f • HDA
 CORES	Intel Core™ i3 N-Series Intel Atom® x7000E Series Intel Processor N 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*	Embedded 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