SmarCore ASL

The new Engicam module for edge AI, multimedia and HMI applications is based on SMARC® standard. SmarCore ASL is based on Intel Atom® x7000RE series and Intel Atom® x7000C series for industrial and commercial use.

HIGHLIGHTS

- Standard SMARC 2.1.1
- Suitable for edge AI, vision and advanced multimedia applications

APPLICATIONS

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

FEATURES

Windows 10 · Windows IoT

CPU	Intel® Amston Lake
CORES	• Intel Atom® x7000RE Series** • Intel Atom® x7000C Series
MEMORY	Up to 16GB (@ up to 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 (or eDP mounting option) • Display Port • HDMI 2x (1x via DP) up to Full HD • 2x MIPI-CSI – 2-4 lanes
VIDEO PROCESSING	• HEVC/ H265, VP9, AV1 dec • HEVC/H265 enc
AUDIO	• I²S interface • HDA
NETWORKING	2x 2.5GB Ethernet interface
USB	• 6x USB 2.0 • 2x USB 3.0
MASS STORAGE	Starting from 4GB eMMC drive soldered on-board
PERIPHERAL INTERFACES	UART, I²C, SPI, GPIOs
PCIE	4x PCIe 3.0
OPERATING SYSTEM	• Linux • Windows 10/ Windows IoT
POWER SUPPLY	+5V DC
DIMENSIONS	Standard SMARC short size module
OPERATING TEMPERATURE*	Industrial** and commercial qualified

* 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.

intel partner

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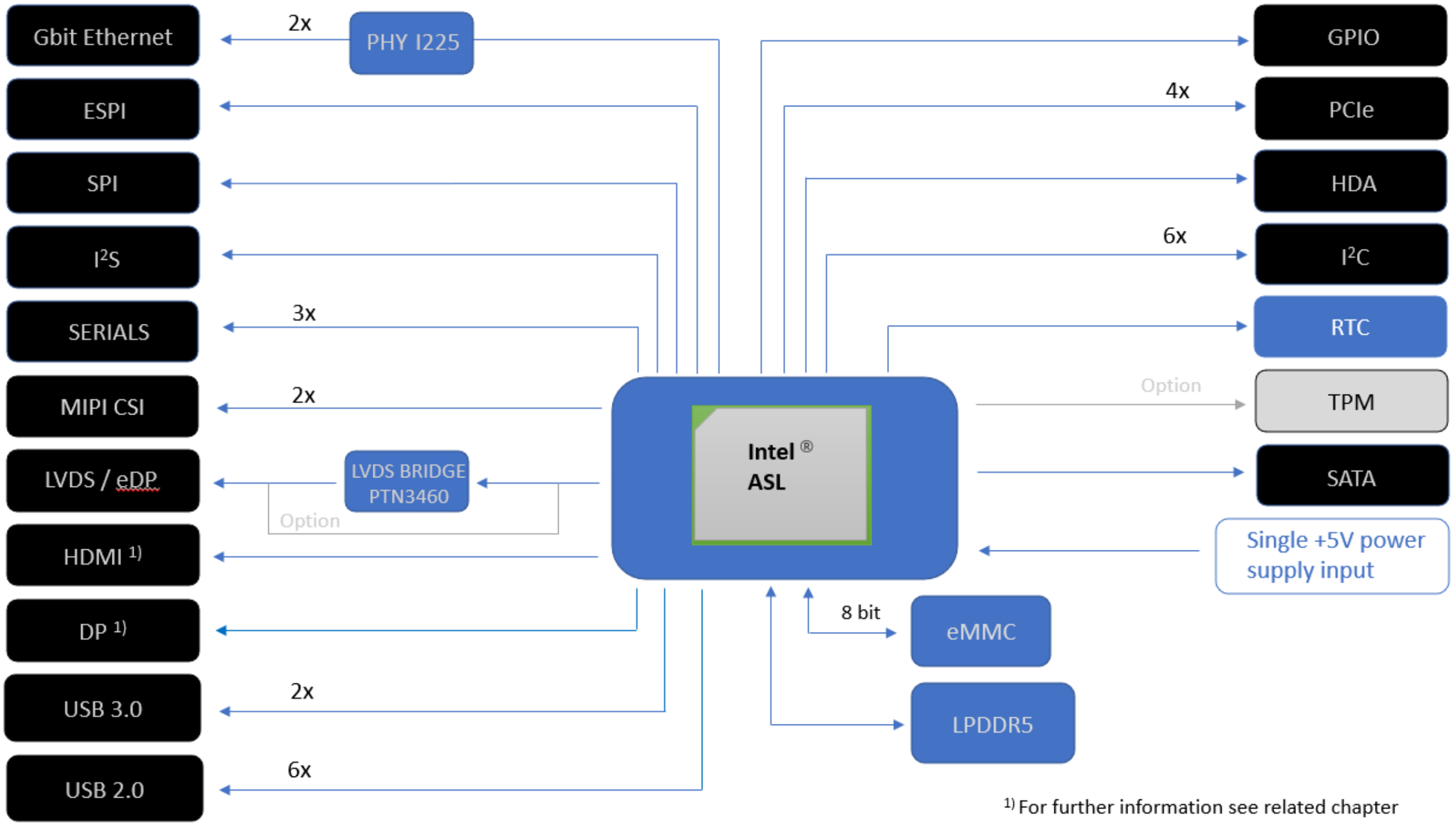
BLOCK DIAGRAM



1) For further information see related chapter