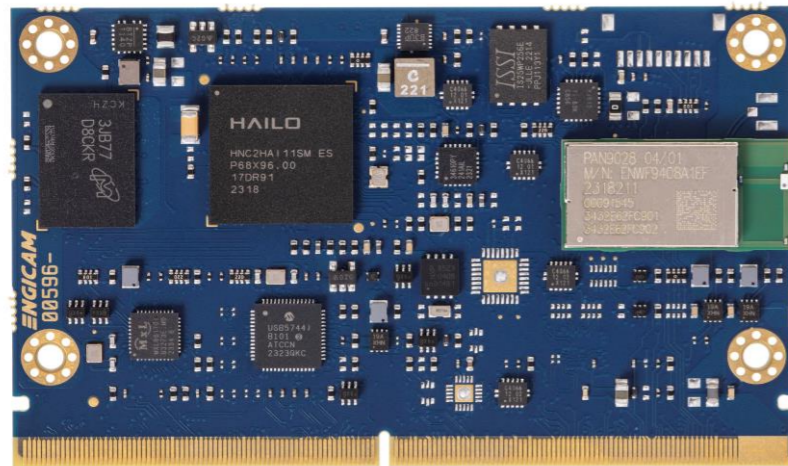


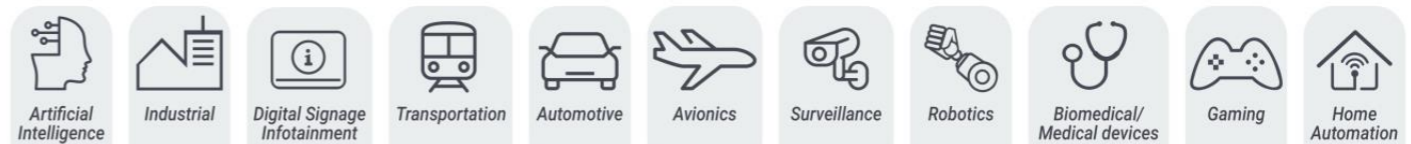
The new Engicam module for AI Vision is based on SMARC standard. SmarCore HAILO-15 is based on HAILO-15™ AI processor with up to 20 TOPS Neural Network processing power for AI powered video enhancement and video analytics.



HIGHLIGHTS

- Standard SMARC 2.1.1
- Powerful processor with up to a 20 TOPS Neural Network (NN) compute power
- Suitable for machine learning, vision and advanced multimedia applications

APPLICATIONS



FEATURES

CPU	HAILO-15
CORES	<ul style="list-style-type: none"> • Quad-core ARM Cortex A53@1.3 GHz (Application subsystem) • 2x Cortex M4 @ 200MHz (MCU subsystem)
MEMORY	Up to 4GB LPDDR4 @ 4266 MT/s
USB	<ul style="list-style-type: none"> • Up to 4x USB 2.0 • Up to 4x USB 3.0
VIDEO INTERFACES	<ul style="list-style-type: none"> • DSI to LVDS 18/24bit up to Full HD • DSI-TX: 1 x 4 lanes, 2.5 Gbps each • 2x MIPI-CSI – 2-4 lanes
VIDEO PROCESSING	<ul style="list-style-type: none"> • HEVC & AVC h.265/h264 4K30 enc
AUDIO	<ul style="list-style-type: none"> • I²S interface
NETWORKING	<ul style="list-style-type: none"> • 1x Gb Ethernet interface • WiFi (optional)

MASS STORAGE	Starting from 8GB eMMC drive soldered on-board
PERIPHERAL INTERFACES	<ul style="list-style-type: none"> • UART, I²C, SPI, GPIOs
PCIE	<ul style="list-style-type: none"> • 2x PCIe 3.0
OPERATING SYSTEM	Linux
POWER SUPPLY	<ul style="list-style-type: none"> • 3.75 to 5.5V DC
DIMENSIONS	Standard SMARC short size module
OPERATING TEMPERATURE*	Industrial 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.

BLOCK DIAGRAM

