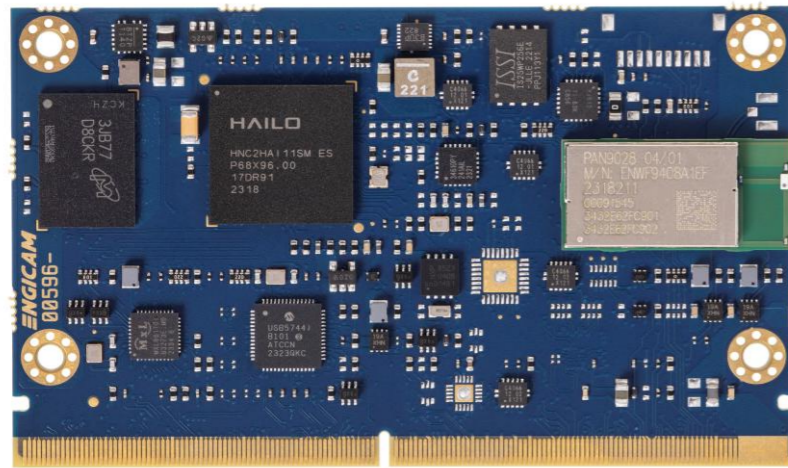


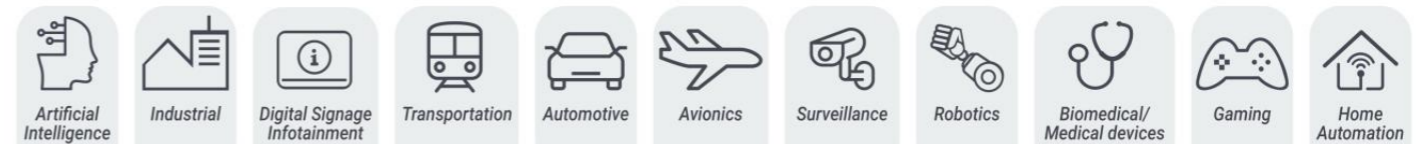
SMARC standard module for AI Vision based on HAILO-15 AI Vision processor with up to 20 TOPS Neural Network processing power for video enhancement and analytics.



## 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	MASS STORAGE	Starting from 8GB eMMC drive soldered on-board
CORES	<ul style="list-style-type: none"> <li>• Quad-core ARM Cortex A53@1.3 GHz (Application subsystem)</li> <li>• 2x Cortex M4 @ 200MHz (MCU subsystem)</li> </ul>	PERIPHERAL INTERFACES	<ul style="list-style-type: none"> <li>• UART, I<sup>2</sup>C, SPI, GPIOs</li> </ul>
MEMORY	Up to 4GB LPDDR4 @ 4266 MT/s	PCIE	<ul style="list-style-type: none"> <li>• 2x PCIe 3.0</li> </ul>
USB	<ul style="list-style-type: none"> <li>• Up to 4x USB 2.0</li> <li>• Up to 4x USB 3.0</li> </ul>	OPERATING SYSTEM	Linux
VIDEO INTERFACES	<ul style="list-style-type: none"> <li>• DSI to LVDS 18/24bit up to Full HD</li> <li>• DSI-TX: 1 x 4 lanes, 2.5 Gbps each</li> <li>• 2x MIPI-CSI – 2-4 lanes</li> </ul>	POWER SUPPLY	<ul style="list-style-type: none"> <li>• 3.75 to 5.5V DC</li> </ul>
VIDEO PROCESSING	<ul style="list-style-type: none"> <li>• HEVC &amp; AVC h.265/h264 4K30 enc</li> </ul>	DIMENSIONS	Standard SMARC short size module
AUDIO	<ul style="list-style-type: none"> <li>• I<sup>2</sup>S interface</li> </ul>	OPERATING TEMPERATURE*	Industrial qualified
NETWORKING	<ul style="list-style-type: none"> <li>• 1x Gb Ethernet interface</li> <li>• WiFi (optional)</li> </ul>	<p>* 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.</p>	

BLOCK DIAGRAM

