

SmarCore Apl-x86

Engicam introduces SmarCore APL-x86 SOM based on Low Power Intel® Atom™, Celeron® and Pentium® processors (formerly Apollo Lake™).
The module is based on the Smarc standard pinout..



FEATURES



CPU

- Intel Atom x7-E3950 (4 x 1.6 / 2.0 GHz, 2MB L2 cache, 12W)
- Intel Atom x5-E3940 (4 x 1.6 / 1.8 GHz, L2 cache 2MB, 9W)
- Intel Atom x5-E3930 (2 x 1.3 / 1.8 GHz, L2 cache 1MB, 6.5W)
- Intel Celeron N3350 (2 x 1.1 / 2.4 GHz, L2 cache 1MB, 6W)
- Intel Pentium N4200 (4 x 1.1 / 2.5 GHz, L2 cache 2MB, 6W)



CORES

Up to 4 up to 2.5GHz, L2 cache 2MB



MEMORY

On board, Up to 8GB LPDDR4



GRAPHICS

- Intel 9° generation (Gen9) LP graphics and media encode/decode engine



VIDEO INTERFACES

- LVDS Dual channel up to 1920x1080 @60Hz via eDP bridge
- HDMI up to 3840x2160 @30Hz or 1920x1080 @60Hz
- DP up to 3840x2160 @30Hz or 1920x1080 @60Hz
- eDP 4K available without LVDS
- MIPI-CSI 1x4 lane and 1x2 lane



VIDEO PROCESSING

- HW accelerated encode HEVC (L5), H.264 (L5.2), MVC (L5.1) VP8, JPEG/MJPEG
- HW accelerated decode HEVC (L5.1), H.264 (L5.2). MVC(L5.2) VP8, VP9, MPEG2, VC-1,WMV9, JPEG/MJPEG



AUDIO

- HDA interface
- I²S interface



NETWORKING

- 1x Intel®I210 (industrial)

APPLICATIONS



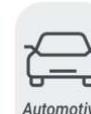
Industrial



Digital Signage
Infotainment



Transportation



Automotive



Avionics



Surveillance



Robotics



Biomedical/
Medical devices



Gaming

BLOCK DIAGRAM

