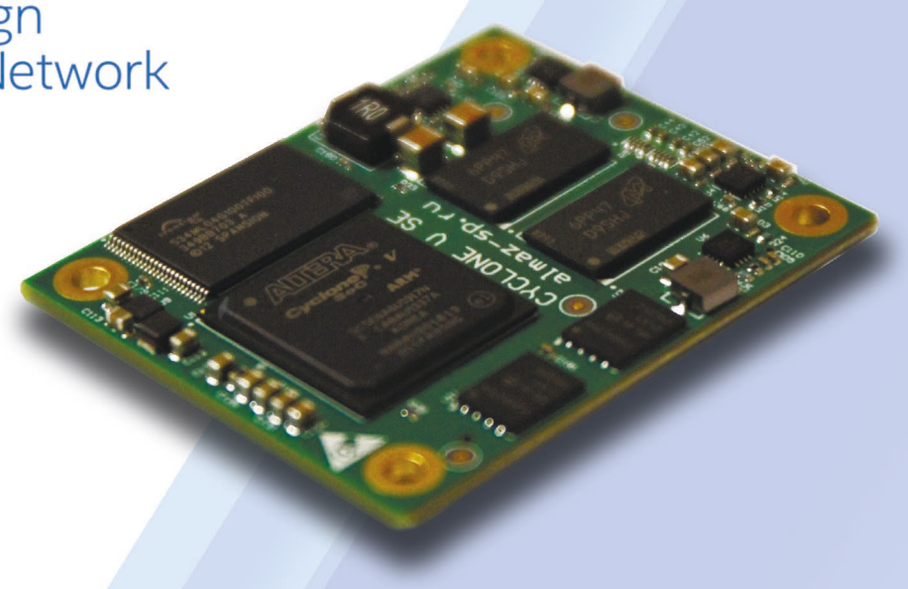
EULER EMBEDDED SOM INTEL SOC CYCLONE-V

- Very low cost high performance SOM for embedded applications
- Low cost EVM available
- Video-kit with Open-CL Optical Flow examples available
- OPEN-CL BSP with Video-input channel support

FPGA Design Solutions Network
Gold



Intel SOC-Cyclone-V FPGA (formerly Altera) System-on-Module (SoM)

Technical specification:
- MEMORY: DDR3-400MHz 256MB / 512MB / 1GB
- NAND FLASH: 128MB / 256MB / 512MB
- QSPI FLASH: 8MB / 16MB / 32MB

SOM module size:
- 54mm x 44mm (2.15x1.75 in)

Software support:
- Preinstalled firmware (U-boot, Linux kernel, RootFS image), OpenCL BSP support.

Technical support:
- Qualified and certified engineering team, technical trainings (SOC, OpenCL).

Hardware support:
- Low-cost Evaluation module available, Custom motherboard development

FPGA fabric details:
- LEs(K): 25 - 110
- ALMs: 9,434 - 41,509 M10K
- memory blocks: 140 - 514 M10K
- memory (Kb): 1,400 - 5,140
- MLABs (Kb): 138 - 621
- 18-bit x 19-bit multipliers: 72 - 224

HPS processing system details:
- CPU: 800-MHz, dual-core ARM® Cortex™-A9 MPCore™
- SD/SDIO/MMC controller with DMA
- 2x 10/100/1000 Ethernet media access control (MAC), DMA
- 2x USB On-The-Go (OTG) controller with DMA
- 2x I2C controller, 2x UART, 2x serial peripheral interface (SPI) Up to 134 general-purpose I/O (GPIO) 7x general-purpose timers , 4x watchdogs

Pricing indication:

Module SOC 5CSEA2 (25KLE, 512kB DDR3, 128MB NAND, 8MB QSPI):	-40..85, 1+: 269$, 100+: 219$
Module SOC 5CSEA6 (110KLE, 1024kB DDR3, 512MB NAND, 32MB QSPI):	-40..85, 1+: 309$, 100+: 269$

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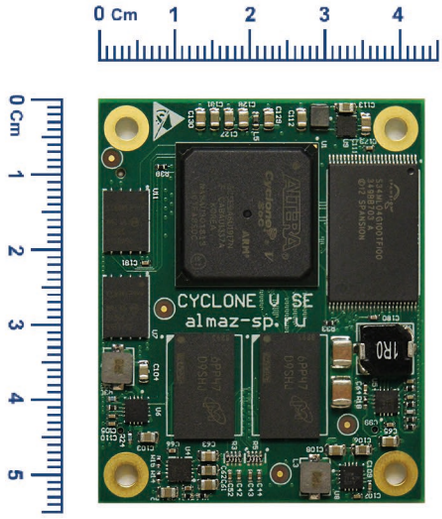

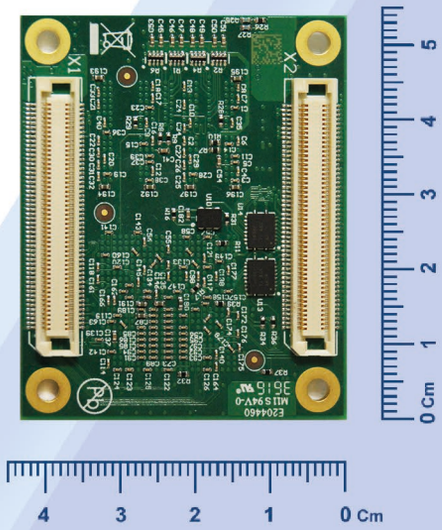

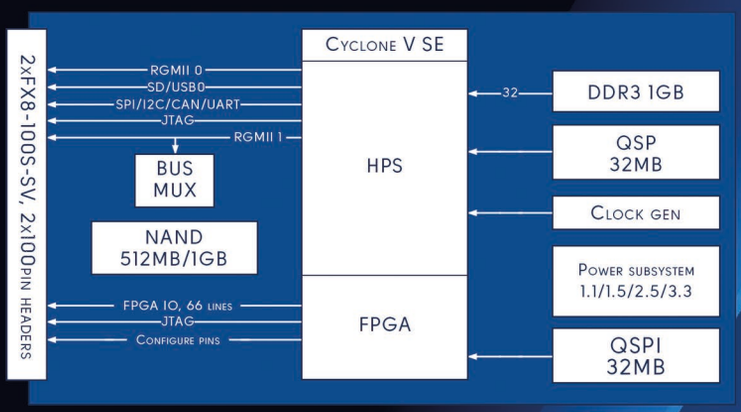

SOM-CV-SE-A6D-C3B-8C

CPU code
A2 - 25K LEs
A4 - 40K LEs
A5 - 85K LEs
A6 - 110K LEs

CPU core configuration
S - single
D - dual

DDR3 RAM size
A - 256MB
B - 512MB
C - 1024MB

Operating Temperature Range(C):
C - 0 - 90
I - -40 - 90

Altera speed grade

QSPI flash size:
A - 8MB
B - 16MB
C - 32MB

NAND flash size:
1 - 128MB
2 - 256MB
3 - 512MB

Low-cost EVM and Video-kit are available