



HENSOLDT CaviPro

The customized computer for any kind of demand

The solution that is tailored to the customer needs by uniting over 35 years computer design experience with state-of-the-art building blocks.

35 Years Experience in Airborne Computing

CaviPro

For over 35 years HENSOLDT has delivered thousands of airborne computing equipment, in operation on all major European military fixed-wing and rotary-wing platforms. HENSOLDT has the appropriate experience, cutting-edge technologies, and capable partners to meet complex and sophisticated requirements of modern mission computing.

- CaviPro is HENSOLDT's solution to fulfill any specific customer requirements for airborne computers. Every CaviPro is built-to-spec utilizing existing hardware and software building blocks
- Flexibility on Form Factor (ARINC600 or custom)
- Different cooling concepts (convection, forced cooled air, etc.)

Core Elements

- Hardware Building Blocks and related operating systems, drivers, board support packages, utilities
- VITA 46 OpenVPX 3U standard modules
- Customised form factors
- Different power supplies available
- Flexible IO: certifiable and deterministic FPGA based interface solution
- Safety-certification artefacts for hardware and software according to DO 254, DO-178C DAL C.
- DAL A and B on request

Single Board Computers (SBC)

- HENSOLDT uses its own SBCs as well as other supplier's COTS SBC for the CaviPro computers.

	MPC 4	APC3-32c
Processor	NXP QorIQ LX2080A up to 2.2 GHz- 8 x A72 ARM processor cores	TI TMS570 Microcontroller with dual core300 MHz ARM Cortex R5F 32 bit RISK CPU
RAM	2x 4GB DDR4 with ECC	2MB
Ethernet	Up to 16x with up to 100GB/s	2x 100 Base Tx

Graphics processor MPG2-3e

AMD E9171 GPU
up to four independent display outputs (configurable for HD-SDI/ARINC 818)
4 GB GDDR5 Memory
Eight compute units, each containing 64 shaders providing 1,248 GFLOPS FP32 (float) performance/78.02 GFLOPS FP64 (double) performance
integrated low-latency framebuffer function with 2x video inputs (configurable for HD-SDI/ARINC 818)
Further details on HENSOLDT's COTS modules can be found on our website

Interface Module MPI2

FPGA and IP-core based
56 high-speed interfaces
Up to 64 configurable standard avionic interfaces (ARINC 429, MIL-ST-1553, Discrete, UART I²C)

References



A400M



Eurofighter



Tiger



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Detect and Protect.

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