HENSOLDT Cyber **MiG-V 1.0**

MADE **I**N **G**ERMANY RISC-**V**

The HENSOLDT Cyber MiG-V 1.0 is a general purpose, logic-encrypted processor, Made in Germany, targeting high-security applications. Logic encryption hinders the insertion of hardware Trojans, giving HENSOLDT Cyber the full control of the design and production chain. The CPU is based on a RISC-V core and can be used together with the formally verified seL4® microkernel (hosted in the chip's internal ROM) to create ultra-secure solutions.
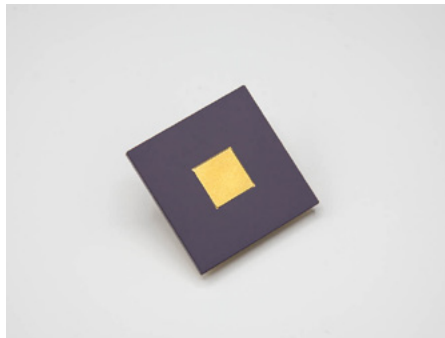
Features and Benefits

- 64-Bit RISC-V core
- Hardened against corruption during production
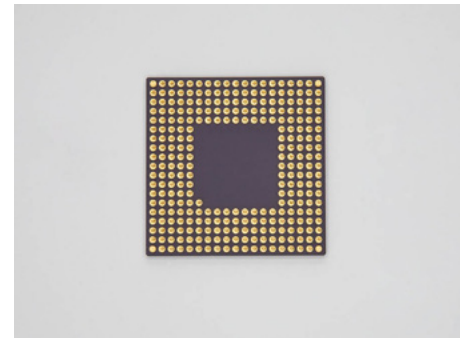- Compatible with TRENTOS and Genode
- Formally verified seL4 kernel in ROM

HENSOLDT
Detect and Protect.

MiG-V 1.0

System Specs		Processor Core Specs	
ETH MAC	2x 10/100 Mbps with MII	RV64	IMAC
TRNG	x1	Privilege modes	M,S,U
Timers	x3	MMU	Sv39
SPI	x3	CPU Clock	240MHz
QSPI	x1	SRAM	1MB
		ROM	• Bootloader + seL4 • Flash
GPIO	x5	TLB	• 16 entries, associative • PLRU replacement mechanism
Industrial temperature range	-40°C to +85°C	Instruction Cache	• 16kB • 4-ways set-associative write-back • VIPT
		Data Cache	• 32kB • 8-ways set-associative write-back • VIPT
		SDRAM Bus Width	• 32 Bit

MiG-V 1.0 Evaluation board

MiG-V 1.0 Packaging

MiG-V 1.0 PGA

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