

Hybrid DSP – Embedded Sensor Processing

Specialists in embedded processing boards and IP aligned with the SOSA Technical Standard for demanding defence, aerospace and industrial programs

Hardware Products

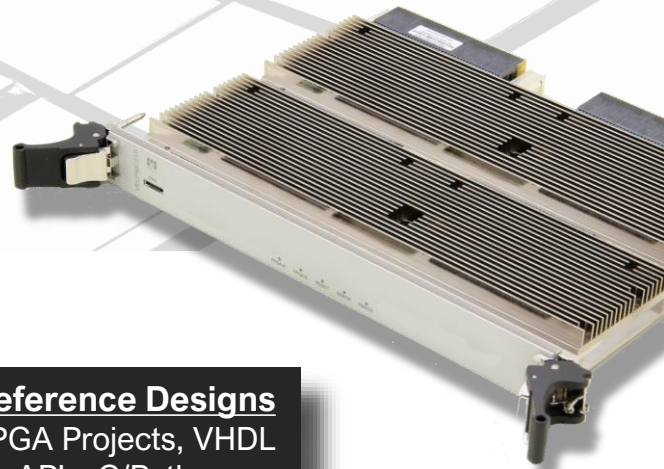
- *COTS 3U/6U VPX FPGA processing boards*
- *Modified-COTS and custom boards*
- *Integrated (3rd party) FMC solutions*
- *Designed and manufactured by Hybrid DSP in the Netherlands*
- *Reference designs included*

Services for OEM and System Integrators

- *System integration support*
- *Automated test equipment (ATE)*
- *Compliance and compatibility consultancy*
- *Product and lifecycle management*

IP for 3rd party Board Designs

- *VITA46.11 IPMC and board management*
- *Firmware and software libraries*
- *Board reference designs (schematics / layouts)*



OVERVIEW

Products
COTS

ATE
Hardware + Software

Reference Designs
FPGA Projects, VHDL
APIs, C/Python

Products
Modified-COTS

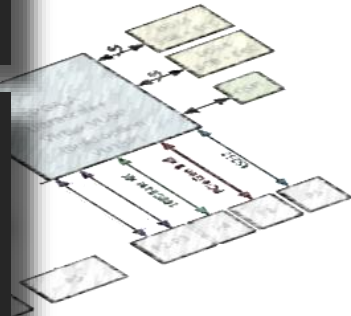
Modular
VPX / SOSA™
Aligned
Solutions*

VITA46.11 IP Core
Light weight Tier-3
Different architectures

Products
Integrated FMC
Solutions

Services
Sales cycle support
Technical Consultancy

Services
Production Transfer
Product Management



DESCRIPTION

COMPANY

Hybrid DSP Systems was founded in the Netherlands in 2018. With more than 30 years experience, Nicholas Kopp and Ingmar van Klink set out to provide system integrators with an efficient, secure and scalable service for the board level products that - for logistical or technical reasons - cannot be provided as Commercial Off The Shelf (COTS). In VPX systems this typically involves (RF) I/O and FPGA boards. Customers wish to reduce the overhead required for ensuring compliance and compatibility with the various standards and the rest of the system; as well as development, production and product management of these application specific boards.



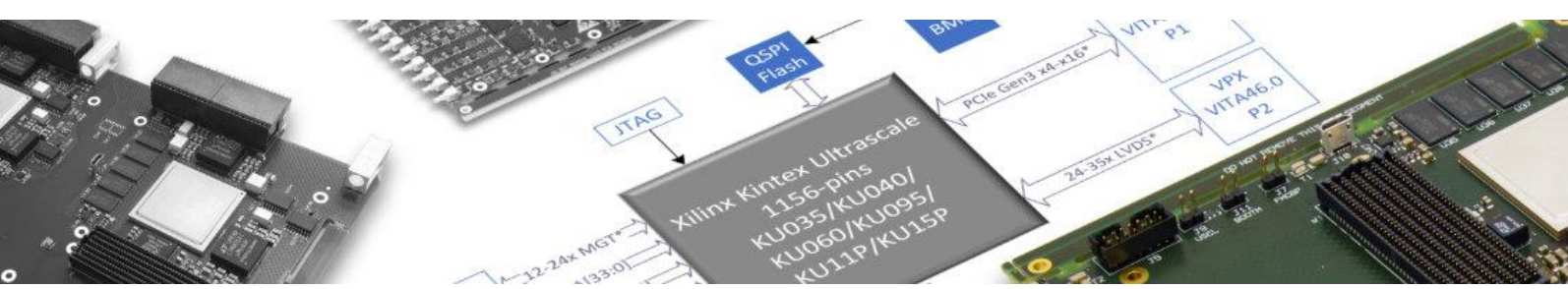
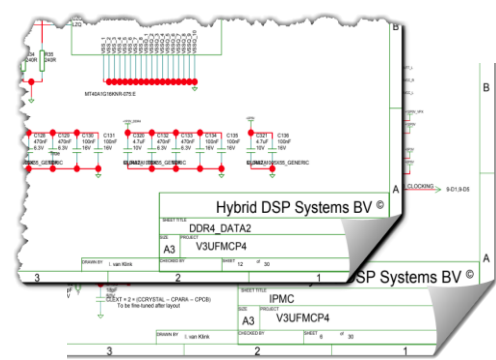
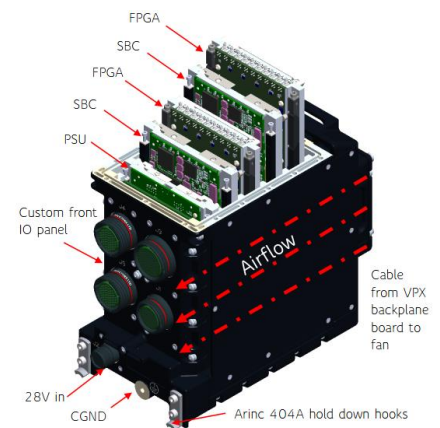
Modified-COTS REALITY CHECK

Modified-COTS (M-COTS) seeks to strike a balance between COTS and the fully custom engineering services route. A COTS supplier can base a solution on a proven core design with a roadmap that is common to multiple derivative M-COTS boards. The customer specific requirements are then implemented, for instance: clocks, digitizers, waveform generators, optical transceivers, cooling solution, or production cost savings.

Unfortunately, the M-COTS development aspect frequently ends up in a no-man's land lost between the COTS product sales teams, the system integration sales team and the customer's technical groups.

The more critical and specific the M-COTS boards are to the overall success of the program, the more important it is to have the actual M-COTS development engineers involved in every step of the sales process. Ultimately, we end up missing the close detail driven collaboration between an engineering services company and the customer that outsources the custom board development. The apparent cost-savings can come at a price.

Hybrid DSP's scalable M-COTS service ensures your sales and technical teams always have access to the most up-to-date IP, documentation, change logs, project status and dynamic risk/cost analyses. We do all of this via secure private git repositories – and yes you can submit pull-requests, too. This reduces your and our overhead, lowers risk and maximizes the efficiency of in-person or video meetings.



CONTACT

Contact Hybrid DSP to discuss how we can accelerate your next development.



* Products and solutions were developed in alignment with the SOSA™ Technical Standard

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