



## COTS for Embedded Vision

A growing range of Embedded Vision OEM boards for industrial (PC/104-compatible) and for rugged (3U OpenVPX-compatible) sporting heterogeneous multicore processor from ARM, Intel, TI and Xilinx is what is on the menu from Sundance in Year 2017.

All complimented with tools from our network of R&D Partners.



The [VI113](#) is a 3U OpenVPX COTS board that leverages on an Altera Stratix-V FPGA, coupled with a Texas Instruments Keystone® Multicore DSP and Dual SDI Video Input/output interfaces and a number analog and digital interfaces to provide a video processing stand-alone system. The VI113 can either be supplied in conductive cooled or air-cooled variations for integration into bespoke OpenVPX enclosures.



The [OI110](#) is a PC/104 COTS board that leverages a Dual-Core ARM9 + Xilinx Kintex-7 FPGA (Zynq SoC) and a Dual CameraLink, running at up to 85MHz, interface with Dual SATA-3 ports and PCI Express expansion via the PCIe/104 OneBank stackable connector concept.

Contact Fleming from Sundance today!



The goal of this project - [TULIPP](#) - is to produce a platform that will enable system integrators to take a fast step forward:

***"Towards Ubiquitous Low-power Image Processing Platforms".***

It is a hardware node with heterogeneous SoC and interfaces for I/O, combined with a real-time operating system and a tool-chain to develop firmware and software for the SoC. The first showing will be at a Workshop called [PEGPUM @ HiPEAC'17](#) later this month.

We will build an ecosystem with varied members during the next 2 years. Current members are [here](#) and we are looking for more.

[Join Ecosystem Now](#)



***What is the [VineScout](#) project, then?***

It's an autonomous four-wheeled robot with stereo vision for navigations, infrared camera for measurements and a number of wireless sensors for data collections, all processed by a heterogeneous SoC, like used by [TULIPP](#).

***What is all this processing going to do?***

It will enable the VineScout to travel up and down the aisle of vines in vineyards and reporting the state of the grapes to help the farmers to make decisions about pests, watering and when to harvest.



**VineScout**

Coming to a vineyard near you soon