

New 3U VPX Intel® Xeon® W Single Board computer --- IC-INT-VPX3k

Quimper, France, October 7th, 2021- Interface Concept, a leading developer and manufacturer of high-performance embedded COTS boards and systems is introducing the IC-INT-VPX3k, a 3U VPX single board computer based on the 11th Gen Intel Core Xeon® W series (codename: Tiger Lake-H) processor.

The IC-INT-VPX3k provides the computing power and the media interfaces of a high-performance workstation on a 3U VPX form factor, while keeping power at a low level. It is aimed at large bandwidth and high-demanding applications located at the edge of networks which may have to meet thermal and environmental constraints and have real-time functionality and operational safety mechanisms.

This 3U board-level product leverages the latest Intel 10nm Intel® Xeon® W series processor enhancements to provide high-computing performance and a complete set of high speed interfaces to system integrators with power, fast IO needs and latest generation video interfaces. The IC-INT-VPX3k takes advantage of the Xeon® W eight cores running at 2,1GHz, 64G DDR4 at 3200MT/s and a large number of PCIe gen3 and Gen4 lanes ideal to connect peripherals with tremendous bandwidth. In addition, it supports the well-proven Intel® Advanced Vector Extensions 512 (AVX-512) instruction and the security protect modules of the Slim Bootloader.

“The IC-INT-VPX3k is the ideal solution for integrators who are looking for a new generation of SBC combining performance, high speed interfaces, managed power and featuring the latest Intel developments in video. This board will be well-suited for customers designing mission computers and surveillance systems” said Franck Lefèvre, Interface Concept’s Sales director.

Interface Concept provides Board Support Packages for Linux® (IC SDK, others...) and VxWorks®. Other RTOS can be supported on request. Compliant with OpenVPX™ standard, the IC-INT-VPX3k is available in air-cooled and conduction cooled versions (compliant with VITA 47 classes). Interface Concept is now taking orders for the IC-INT-VPX3k which will ship in Q1-2022.

Main features

- Intel Xeon® W (Tiger Lake-H)
- DDR4 with ECC up to 64GB
- 1 Gen4 PCIe x4 (Data Plane)
- 1 Gen4 PCIe x16 (Expansion Plane)

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Product datasheet: <https://www.interfaceconcept.com/products/Single-Board-Computers/3U-VPX/374-IC-INT-VPX3k-3U-VPX-Intel-Xeon-W-Single-Board-Computer>