

## VME & cPCI product portfolio

FORM FACTOR	ETHERNET SWITCHES	
6U VME	<b>ComEth4000e</b> 32 ports - 1/10/40GbE	BKP Ethernet BASE-T
	<b>ComEth4070e</b> 32 ports - 1/10/40GbE	BKP Ethernet BASE-T
3U cPCI	<b>ComEth4050a_3U</b> 10 ports - 1GbE	BKP Ethernet BASE-T
6U cPCI	<b>ComEth4050e</b> 32 ports - 1/10/40GbE	BASE-T

FORM FACTOR	SINGLE BOARDS COMPUTERS	
6U VME	<b>IC-INT-VMEb</b> Intel® Xeon® D-1500 Xilinx® Kintex®-7 FPGA	
	<b>IC-INT-VMEc</b> Intel® Xeon® D-1500	
	<b>IC-PPC-VMEb</b> 1 or 2 x QorIQ® T2081/T1042 Xilinx® Kintex®-7 FPGA	

## XMC/PMC, FMC, carriers

Other FPGA I/O, graphics, storage, serial cards and accessories complete our product offering. Boards are available in XMC, PMC and FMC form-factors. Consult us for more information.



### About us

Leader in the design and manufacturing of high-performance boards and systems for industrial and defense markets.

### Applications

Mil-aero, airborne, naval and ground applications. Surveillance airborne radar, sonar, electronic warfare, AI, Intelligence, Surveillance & Reconnaissance (ISR), Cyber Security.

### Products

Modular and flexible open hardware platforms delivered with firmware, BSPs and networking software. Air-cooled and conduction-cooled versions.

### Customization

MCOTS and custom design in a short time-frame.

### Support

Responsive and long-term technical support by our engineers, from systems' integration to deployment.

### Partners

Member of VITA and PCI SIG standard organizations and partners of major suppliers such as, Intel, NXP, WindRiver and Xilinx.



### Global presence



### Headquarters

Interface Concept  
3, rue Félix Le Dantec • 29000 Quimper - FRANCE  
Tel. +33 2 98 57 30 30 • info@interfaceconcept.com

### Sales Partners

<https://www.interfaceconcept.com/company/sales-partners>

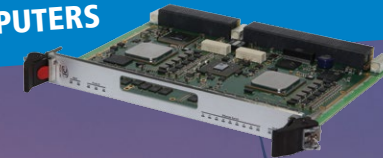


FPGA BOARDS



ETHERNET SWITCHES

SINGLE BOARDS COMPUTERS



[www.interfaceconcept.com](http://www.interfaceconcept.com)

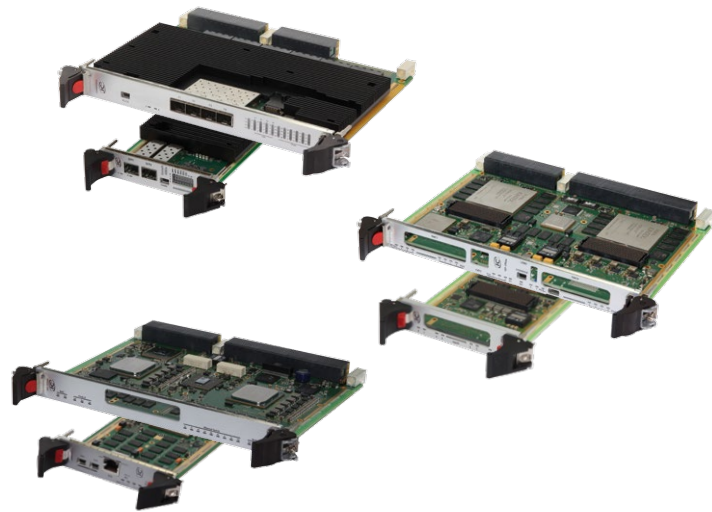
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# HPEC building blocks



Front-End ↔ Networking ↔ Back-End



# Software capabilities

**Firmware:** UEFI technology, UBOOT, boot loader developed and tested by our engineering team.

**BSP:** Board Support Packages are provided for Linux and VxWorks. Other RTOS like PikeOS, LynxOS & Integrity can be supported on request.

**IP cores:** reusable units of FPGA logic delivered along with Example Designs.

**Example Design:** FPGA design aiming to demonstrate the way an IP core or FMC+ FEP assembly operates in a dedicated context.

**Switchware:** Switch Management stack supporting a rich set of Layer 2/3 features controlled via the following interfaces:

- Graphical User Interface (GUI)
- Command Line Interface (CLI)
- SNMP (v2c or v3)

**NASware:** Linux-based user application to configure a VME or VPX Embedded Network Attached Storage (NAS) in a system.

**VPNware:** Linux-based OS specialized in IPsec Virtual Private Network (VPN). It provides router/firewall services such as IPv4/IPv6 forwarding, traffic filtering and NAT.

# 3U and 6U VPX product portfolio

FORM FACTOR	FPGA BOARDS	ETHERNET SWITCHES	SINGLE BOARDS COMPUTERS
3U VPX	<b>IC-FEP-VPX3d</b> 1 x Kintex® UltraScale™ FMC+	<b>ComEth4080a</b> 21 ports - 1 GbE BKP Ethernet BASE-T	<b>IC-ARM-VPX3a</b> NXP Arm® LX2080A/LX2160A SOSA™ <b>IC-ARM-VPX3b</b> NXP Arm® LX2080A/LX2160A <b>IC-INT-VPX3d</b> Intel® Xeon® D-1500 Xilinx® Kintex®-7 FPGA <b>IC-INT-VPX3e</b> Intel® Xeon® D-1500 Xilinx® Kintex®-7 FPGA <b>IC-INT-VPX3k</b> Intel® Xeon® W <b>IC-PPC-VPX3d</b> NXP QorIQ® T2080
		<b>ComEth4082e</b> 28 ports - 1/10/40GbE Optical backplane BKP Ethernet BASE-T VITA 66.5	
		<b>ComEth4087e</b> 32 ports - 1/10/40GbE Optical front BKP Ethernet BASE-T	
		<b>ComEth4412a</b> 12 ports - 1/10/40GbE PCIe BKP Ethernet SOSA™ Hybrid Dual plane PCIe	
		<b>ComEth4420a</b> 14 ports - 1/10/40GbE PCIe BKP Ethernet Dual plane Hybrid PCIe	
		<b>ComEth4582a</b> 32 ports - 1/10/40GbE BKP Ethernet SOSA™	
		<b>ComEth4590a</b> 34 ports - 1/10/40GbE Optical front BKP Ethernet Dual plane	
		<b>ComEth4591a</b> 34 ports - 1/10/40GbE Optical backplane SOSA™ VITA 66.5 Dual plane	
		<b>ComEth4682e</b> 32 ports - 1/10/25/40/100GbE BKP Ethernet SOSA™	
		6U VPX	
<b>ComEth4510e</b> 98 ports - 1/10/40GbE BKP Ethernet BASE-T			

BKP Ethernet

**Backplane Ethernet Port:**  
 port supporting any of these IEEE modes:  
 1000BASE-BX/1000BASE-KX/10GBASEKR/  
 25GBASE-KR/40GBASE-KR4/100GBASE-KR4

BASE-T

**Twisted-pair Ethernet Port:**  
 port supporting any of these IEEE modes:  
 10/100/1000/2.5G/5G/10GBASE-T

VITA 66.5

**VITA 66.5 Port:**  
 Optical port compliant with VITA 66.5

Hybrid

**Hybrid Switch (Ethernet & PCI)**

SOSA™

**SOSA™ aligned Switch**

Dual plane

**Dual-Plane Switch**

FMC+

**VITA 57.4 FPGA Mezzanine Card Plus**

PCIe

**PCI Express**