


# VERSATILITY THROUGH VITA 57.4

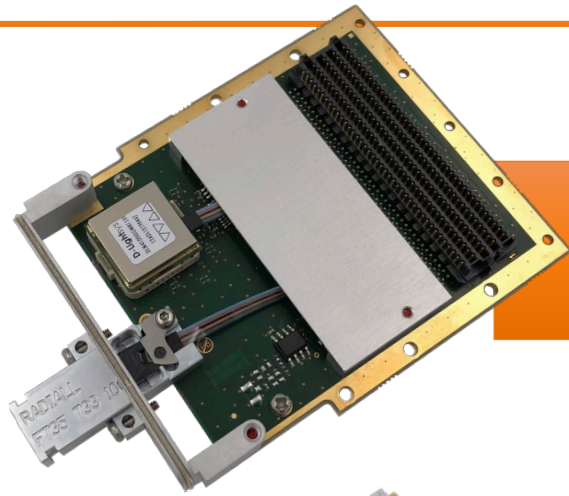
EMBEDDED TECH TRENDS 2023  
*PATRICK MECHIN, CEO*



The background features a light gray grid of thin, intersecting lines that create a sense of depth and perspective. A large, white, trapezoidal shape is positioned in the center, serving as a backdrop for the text. The text is rendered in a clean, dark gray, sans-serif font.

HOW TO LEVERAGE VITA 57.4 STANDARD TO PROVIDE  
HIGH-END SOLUTIONS TO THE INDUSTRIAL MARKET?

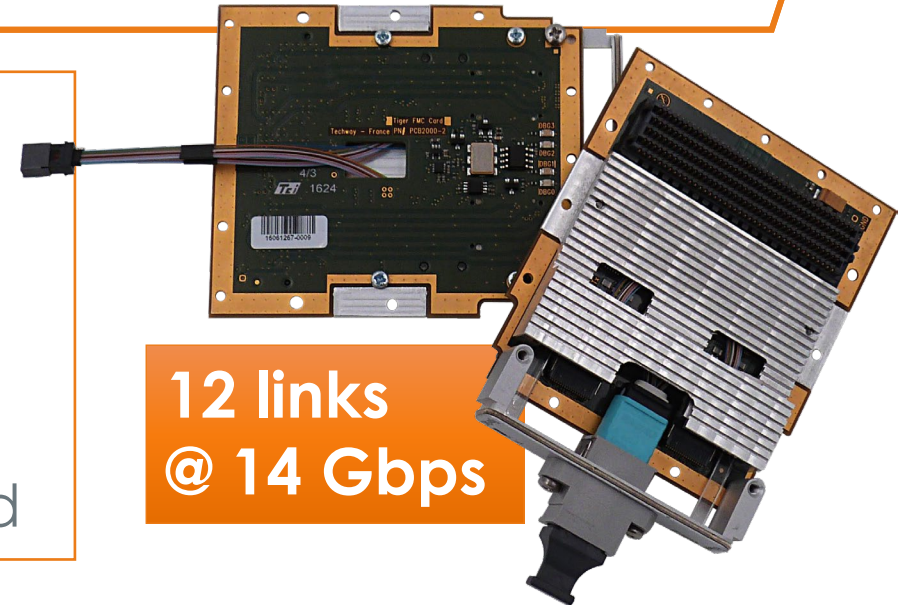
# 20+ YEARS OF VITA 57.4 SOLUTIONS



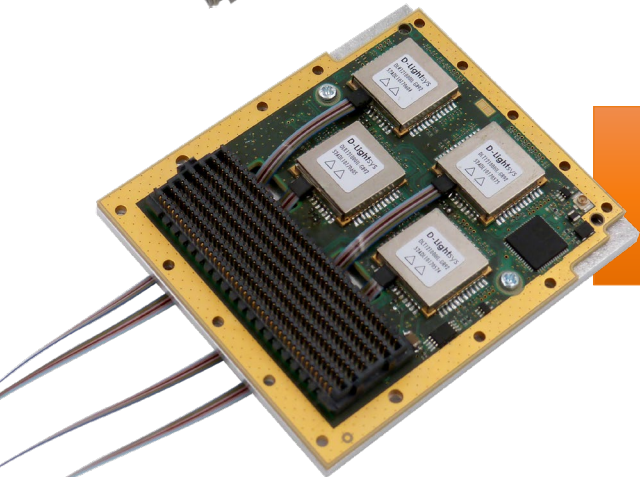
4 links @  
10 Gbps

## Optical interfaces

- High-density
- High-speed
- FMC/FMC+
- Rear I/O
- Industrial/Rugged

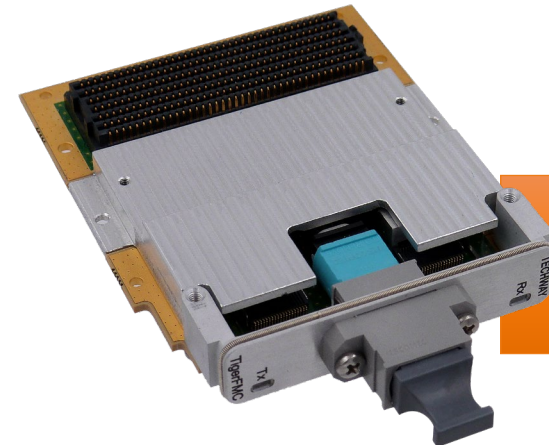


12 links  
@ 14 Gbps



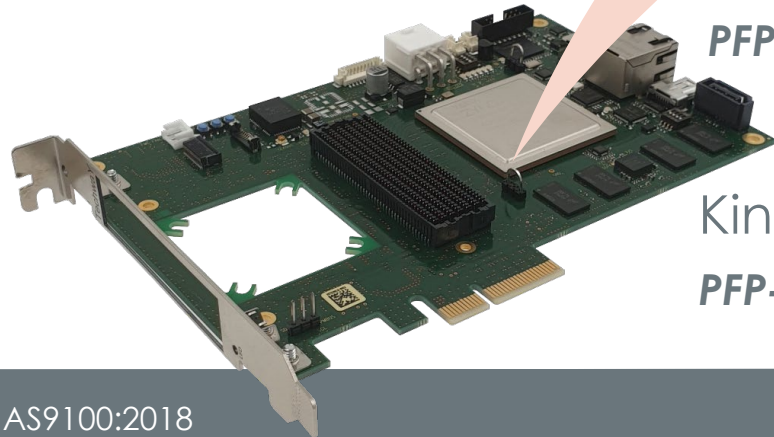
24 links @  
10 Gbps

12 links @  
10 Gbps



4 links @  
25 Gbps

# PFP: **P**CIe **F**PGA **P**LATFORMS WITH FMC+



**MPSoC  
Stand-alone**

Zynq UltraScale+ (7CG or 11EG)  
**PFP-ZU+ | Available**

Kintex-7  
**PFP-KX7+ | Available**

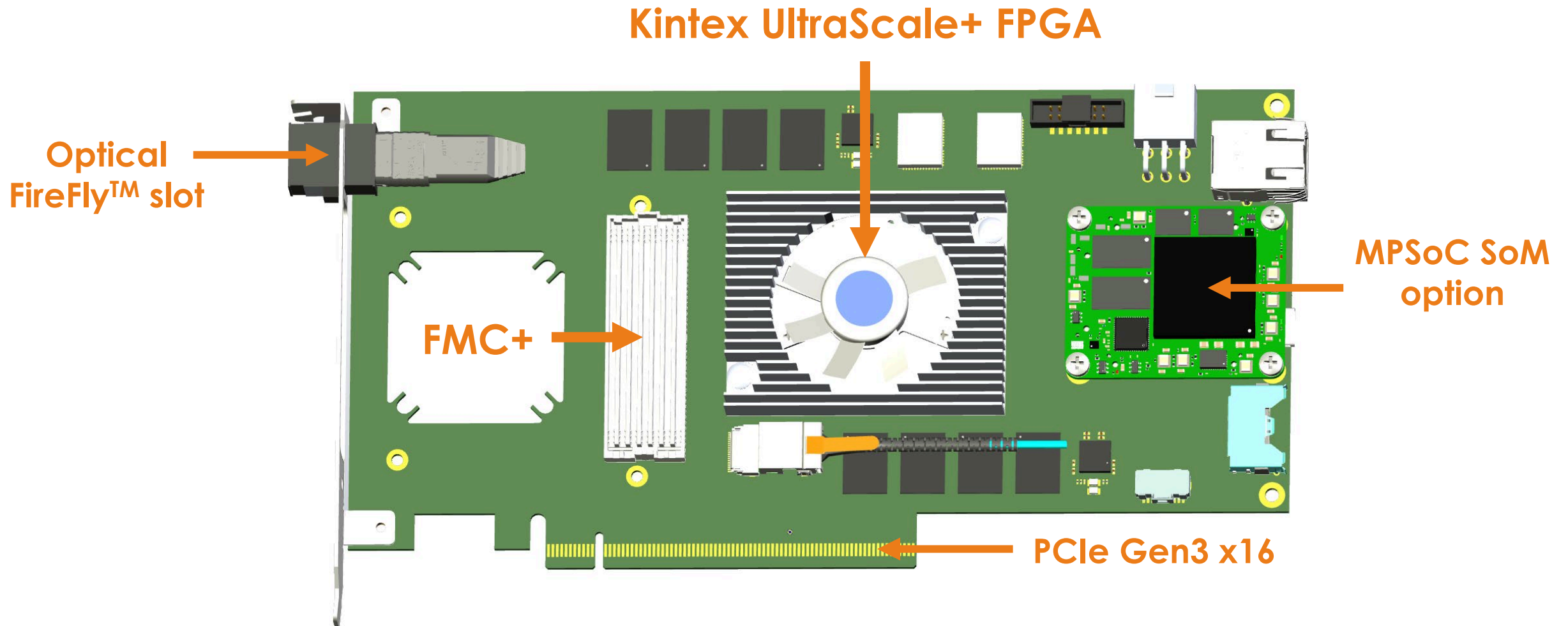
**Video  
applications**

ZU7EV (H.264)  
**PFP-ZU+ | Available**

**High-speed interface  
28 Gbps**

Kintex UltraScale+  
**PFP-IV | Q2 2023**

# 28 GBPS OPTIMIZED PLATFORM



# BENEFITS OF USING PFP-IV VS. ALTERNATIVES



## Cost-effective solution

Best price/performance/watt ratio

## VPX form-factor

- Rugged
- Expensive



## Versatile interfaces

FPGA: FMC+, Optical slot, User I/Os  
MPSoC SoM: µSD, Ethernet, USB3.0

## Single interface

- No FMC
- No reuse



## Fast integration

TECHWAY support  
Full Development Kit

## In-house solution

- Long-time
- High-costs



## Longevity

Long-term lifecycle  
10+ years

## Development board

- Short-term
- Form-factor

# PFP-IV FOR HIGH-SPEED COMMUNICATIONS

## Analog

- ADC/DAC > 4 GSPS

### Markets / Applications

#### Aerospace & Defense

RADAR Systems, Space Solutions, MIL-COM,  
Electronic Warfare

#### Communications

Software Defined Radio (SDR), Wideband RF Signal Processing,  
Wireless Infrastructure

#### Instrumentation & Measurement

RF Signal Analyzers, Data Acquisition, Test  
& Measurement

## Digital

- 100 Gbps transmissions

### Markets / Applications

#### Telecom

25G/100G Ethernet

#### Avionics

ARINC 818

#### Test & Measurement

ODI, Ethernet, sFPDP

#### Defense (RADAR & EW)

sFPDP, ODI

# TWO WAYS' IMPLEMENTATION

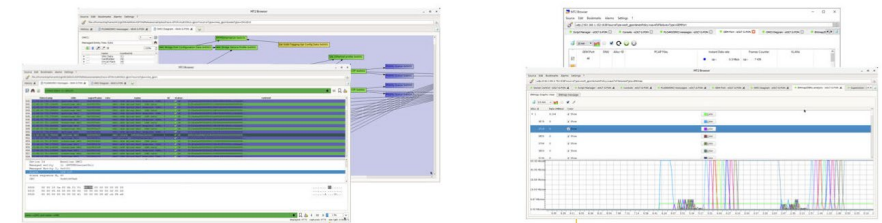
## Workstation



### GNSS Simulator (GPS)

Source: [www.syntony-gnss.com](http://www.syntony-gnss.com)

## Stand-alone module



Real Time analysis and capture without time limitation

Neutral and Compliant

Access Protocol data and Traffic immediately

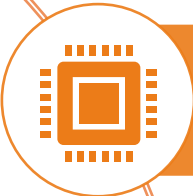



### G-PON Analyzer (Telecom)

Source: [www.mt2.fr](http://www.mt2.fr)





# WRAP-UP

-  Full range of PCIe FPGA boards with FMC+
-  Full range of VITA 57.4 optical interfaces
-  New 28G platform for high-speed communications
-  New 28G platform for high-speed ADC/DAC

**Thank you for  
your attention**



**Patrick MECHIN**  
CEO

**sales@techway.com**

**www.techway.com**