

Sundance Newsletter

August 2025

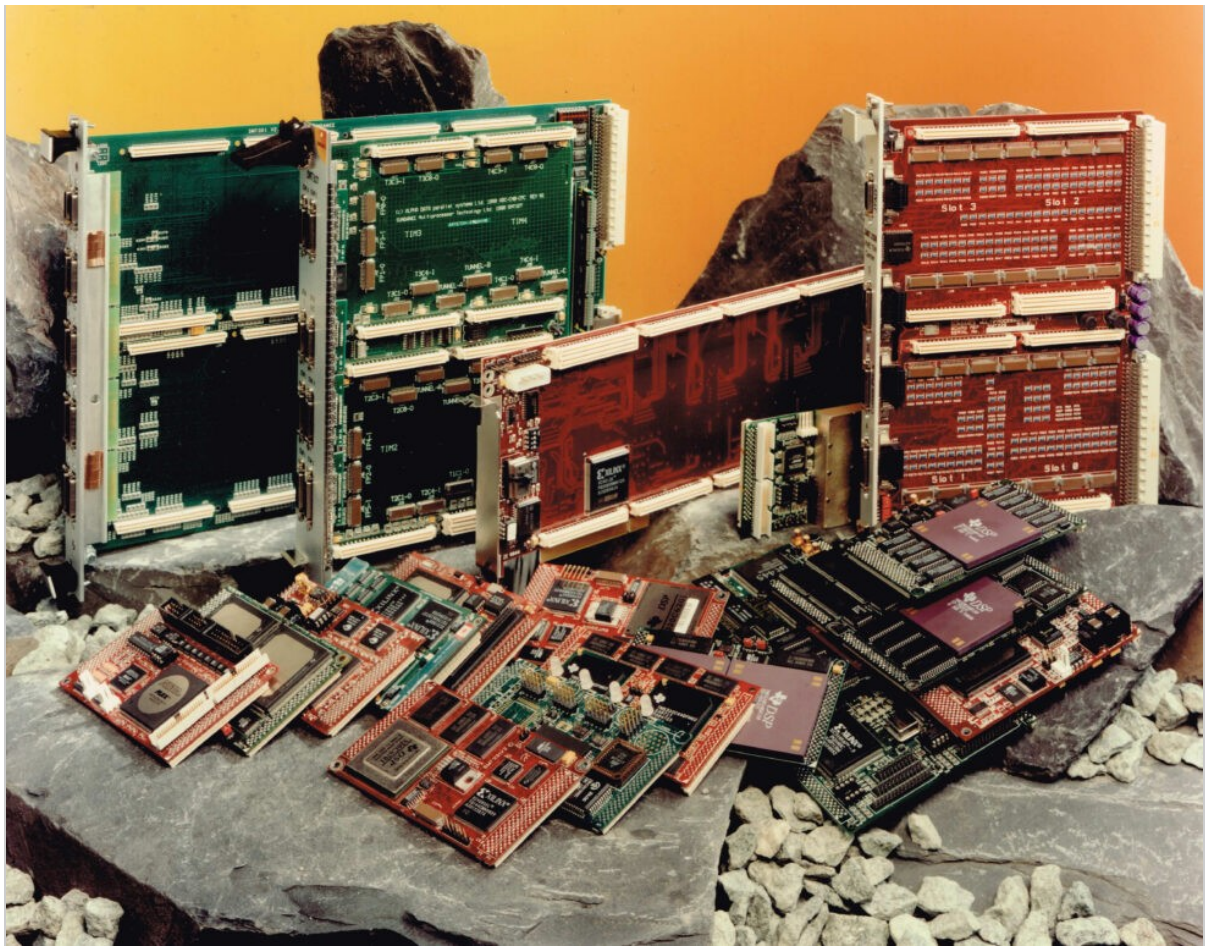
SUNDANCE

Discover our Latest Ventures and Achievements from this Month

MOSA, SOSA & More: The Rise of Mil/Aero Open Standards

Computing speed now drives the effectiveness of modern defence platforms. High-speed signal processing and advanced sensor fusion are essential for operations ranging from electronic warfare to multi-sensor targeting. Proprietary “black box” systems slow integration and make upgrades expensive.

To overcome these limits, the U.S. defence sector is adopting modular, open standards including MOSA, SOSA, FACE and VICTORY. These approaches improve interoperability, extend system life and allow faster technology insertion across mission-critical programmes.



Key Takeaways from the Blog

- Why proprietary “black box” systems are being replaced
- How open standards improve interoperability and reduce costs
- What VME → VPX → OpenVPX evolution means for high-speed data
- Real examples: Etion Create and Sundance solutions in action

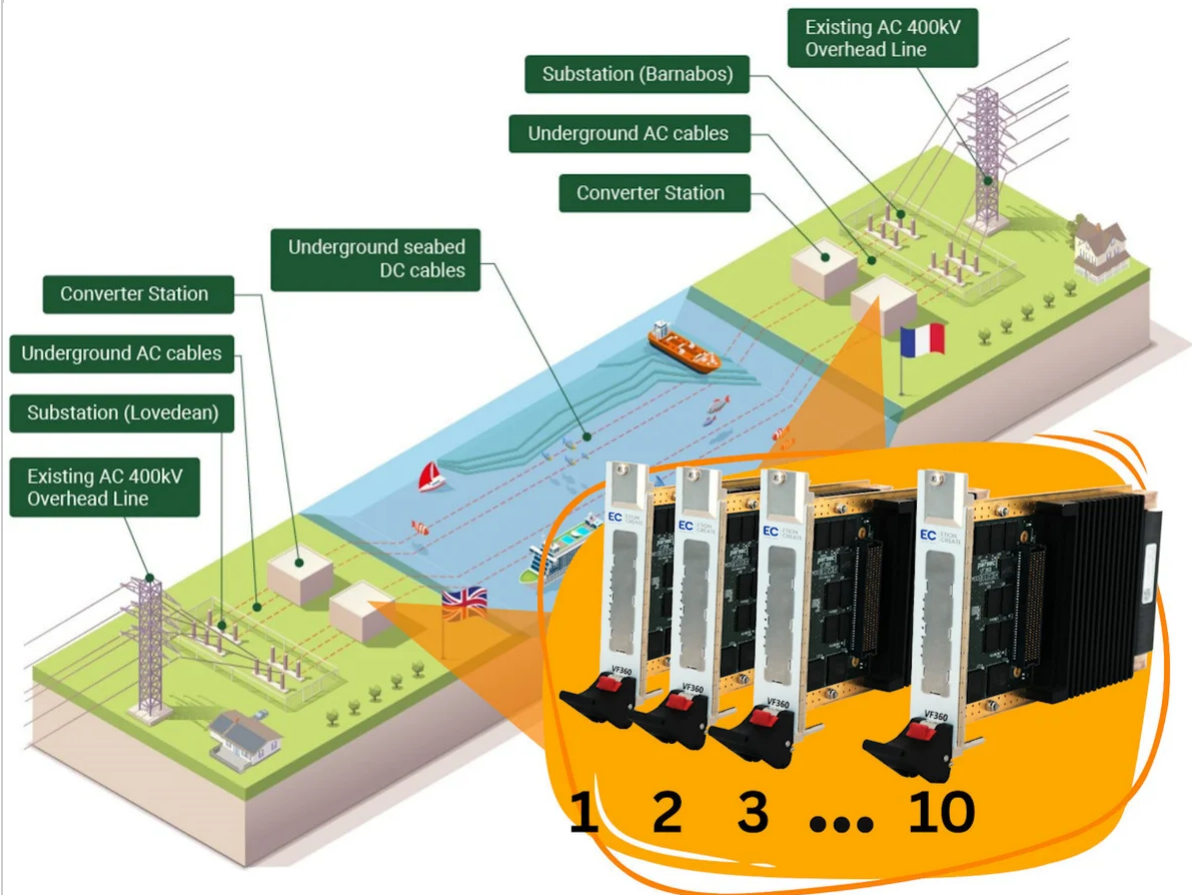
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OpenVPX: Modular Systems Built to Last

Some embedded systems must deliver reliable performance for decades in extreme conditions. Defence and industrial programmes require computing that is fast, rugged and easy to upgrade over time. OpenVPX provides that foundation by

combining high-speed data handling, modular board design and clear system-level standardisation.

It allows multiple vendors to integrate seamlessly, while giving engineers a flexible framework for future expansion. This makes OpenVPX ideal for long-life platforms in defence, aerospace and energy infrastructure.



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Key Takeaways from the Blog

- How OpenVPX defines system-level interoperability and modular planes
- Why it outperforms other embedded standards in rugged environments
- Expansion options with XMC and FMC for specialised I/O
- Real-world impact: VF360 powering global HVDC energy systems

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