

Secure, actionable information when you need it, where you need it Mercury's environmentally protected OpenVPX boards provide smart, autonomous applications the on-platform multifunction processing capability and security needed to solve the most complex data problems in the most inhospitable environments.

Our 6U OpenVPX modules feature the same Intel® Xeon® Scalable processors that power modern data centers and the proven BuiltSECURE™ security framework – built-in not bolted on – to deliver secure, high performance processing anywhere. These rugged multifunction processing modules are the key building blocks for developing software-agnostic embedded Al-capable processing systems that function at the tactical edge. Based on an interoperable, flexible open architecture design approach, the modules enable rapid modernization for competitive advantage and long, program life sustainment.

## Highlights

- Manages big data workloads in physical and environmentally challenged platforms
- Provides on-platform data confidentiality/integrity hardware protections even if the platform is compromised
- Delivers SWaP-optimization and advanced ruggedization the highest possible performance with the highest MTBF for consistent and efficient operation – anywhere

 ${\bf Compared\ to\ Xeon\ D-based\ 6U\ OpenVPX\ boards,\ Xeon-SP\ based\ boards\ deliver:}$ 

150% more memory bandwidth

22% improved powe efficiency

additional years of lifecycle support

3× more

4× DMIPS

#### Featured Product HDS6705



HDS6705 highly optimized, rugged, 6U OpenVPX board brings secure, data center processing capability to the tactical edge



#### **EDGE APPLICATIONS**

Artificial intelligence

Big data analytics

C4ISR

E0/IR

Image processing

Radar processing

Sensor fusion

Signals intelligence

#### **FEATURES**

Intel® Xeon® SP (Scalable Processor) Architecture

BuiltSECURE® system security engineering (SSE) with FPGA complex to support secure boot and application load options. Also available without built-in security features

6U OpenVPX form factor

Up to 192 GB DDR4 SDRAM per module

Up to 100 Gb/s Ethernet high speed switch fabrics

Optional <u>MOTS+ rugged packaging</u> for extreme environmental protection

Optional SOSA-aligned profile

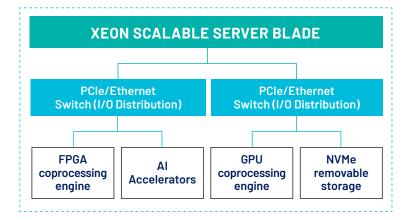
Open software environment

System management (out-ofband) for remote monitoring, alarm management, and hardware revision and health status

Designed, manufactured, coded and tested in trusted DMEA-accredited facilities

#### Partnering with





### **MERCURY'S PROCESSING ECOSYSTEM**

From an extensive portfolio of processor, coprocessor, network switches, I/O, storage, and ruggedized chassis, we build the most powerful open system architecture-based subsystems available for embedded processing applications operating at the tactical edge.

Learn more about our edge-ready subsystems, visit: mrcy.com/embedded-subsystems

# mercury

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#### Learn more

Visit: mrcy.com/multiprocessing











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