

# SBC3515-S

## 3U OpenVPX Single Board Computer with BuiltSAFE®

Tackle AI and aircraft safety-critical workloads with confidence

- Intel® Core™ Gen 11 processor
- Integrated Iris Xe Gen12 GPU
- Safety certifiable with complete DO-254 and DO-178C artifacts
- 10 Gb Ethernet
- 35 W power-efficient performance
- Rugged and SOSA aligned



### TECHNICAL SPECIFICATIONS

#### Processor

Intel® Core™ Gen11 i7-1185GRE  
 Quadcore dual thread @2.8 GHz  
 Vector (AVX-512) and AI accelerators  
 Technology 10 nm on SuperFin transistor

#### Integrated Graphic Processing Unit

GPU Iris Xe Gen12 Gfx with up to 96 EUs  
 Video encode/decode H264/H265

#### BuiltSAFE® Proven Elements

DO-254 hardware  
 DO-178C graphics, compute, and video encode/decode software  
 Board monitoring and health alarms  
 Design and information assurance

#### Memory

32 GB DDR4-3200 in-band ECC memory  
 Up to 128 GB on-board SSD

#### Configurable I/O

Up to 4 independent display units  
 2x 10 G Ethernet  
 1x 1000 BASE-T Ethernet with TSN  
 2x SATA

#### Fabric Interface

PCIe Gen3 2x 4-lane, 4x 2-lane  
 SOSA/OpenVPX slot profile MOD3-PAY-1F1F2U1TU1T1U1T-16.2.15-2

#### System Management

On-board IPMI controller VITA46.11

#### Mechanical

3U OpenVPX, 1.0" slot pitch, VITA 65  
 XMC slot, VITA 61

P1: X12d pins to VPX backplane

P2: X8d + X16s pins to VPX backplane

#### Rugged and Low Power

Temperature: -40°C to 85°C card edge

Air- or conduction-cooled configurations

35 W power consumption

[Advanced rugged packaging options](#)

#### Partnering with

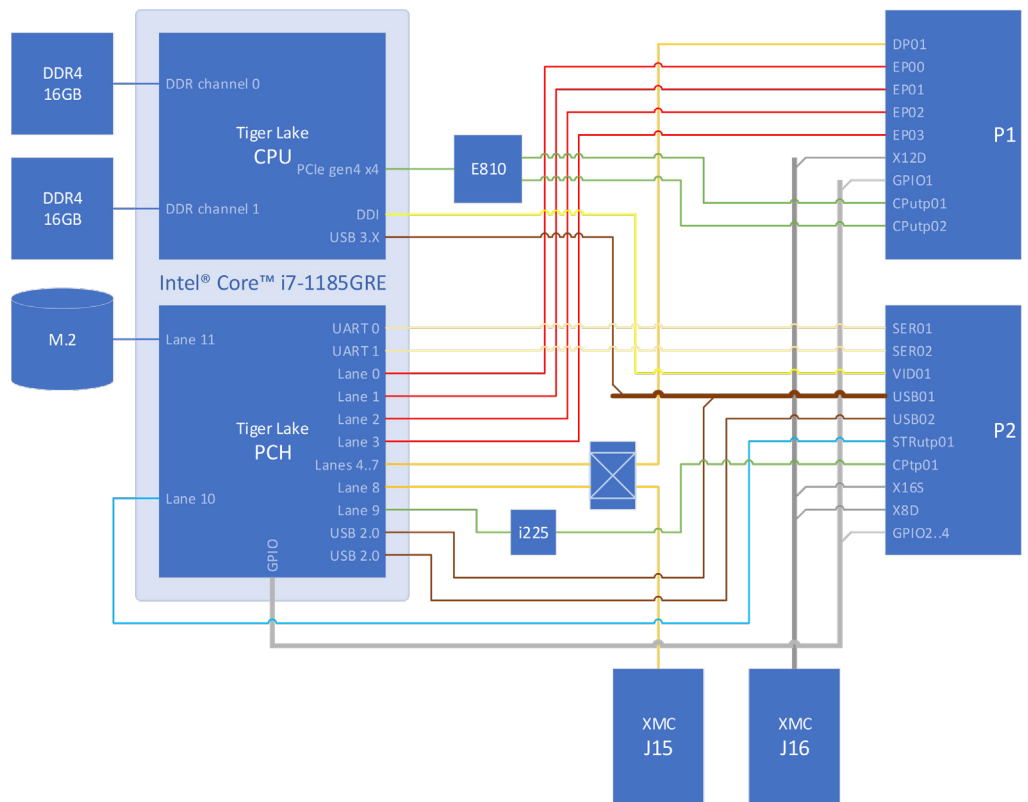


## TECHNICAL SPECIFICATIONS

### Board Support Packages (BSP)

Linux  
Greenhills  
DeOS  
LynxOS  
PikeOS  
WindRiver

### SBC3515-S Block Diagram



mercury

### Corporate Headquarters

50 Minuteman Road  
Andover, MA 01810 USA  
+1 978.967.1401 tel  
+1 866.627.6951 tel  
+1 978.256.3599 fax

### International Headquarters

#### Mercury International

Avenue Eugène-Lance, 38  
PO Box 584  
CH-1212 Grand-Lancy 1  
Geneva, Switzerland  
+41 22 884 51 00 tel

### Learn more

Visit: [mrcy.com/contact-us](https://mrcy.com/contact-us)



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