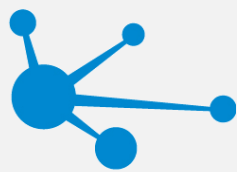


CRITICAL LINK



In collaboration with **altera**

Holoscan Sensor Bridge

Multi-Sensor Input to Nvidia GPU

Sensors



**Multimodal Sensor
Inputs**



Up to
8x MIPI



I2C

Holoscan Sensor Bridge



**MitySOM-A5E:
Agilex 5 FPGA Dev Kit**



25G
Ethernet
over SFP+

NVIDIA Platform



AI Inferencing
with Orin, Jetson AGX
Thor, or Jetson Nano

**Stream high-speed data
from multiple sensors
with ultra-low latency
for these target
applications:**

Robotics / Humanoids

Multi-camera AGVs

Robotic Surgery
Equipment

Diagnostic Imaging

Industrial Automation

Visual Inspection

Critical Safety Analysis

Biometrics

Pattern Analysis

Scientific Instrumentation

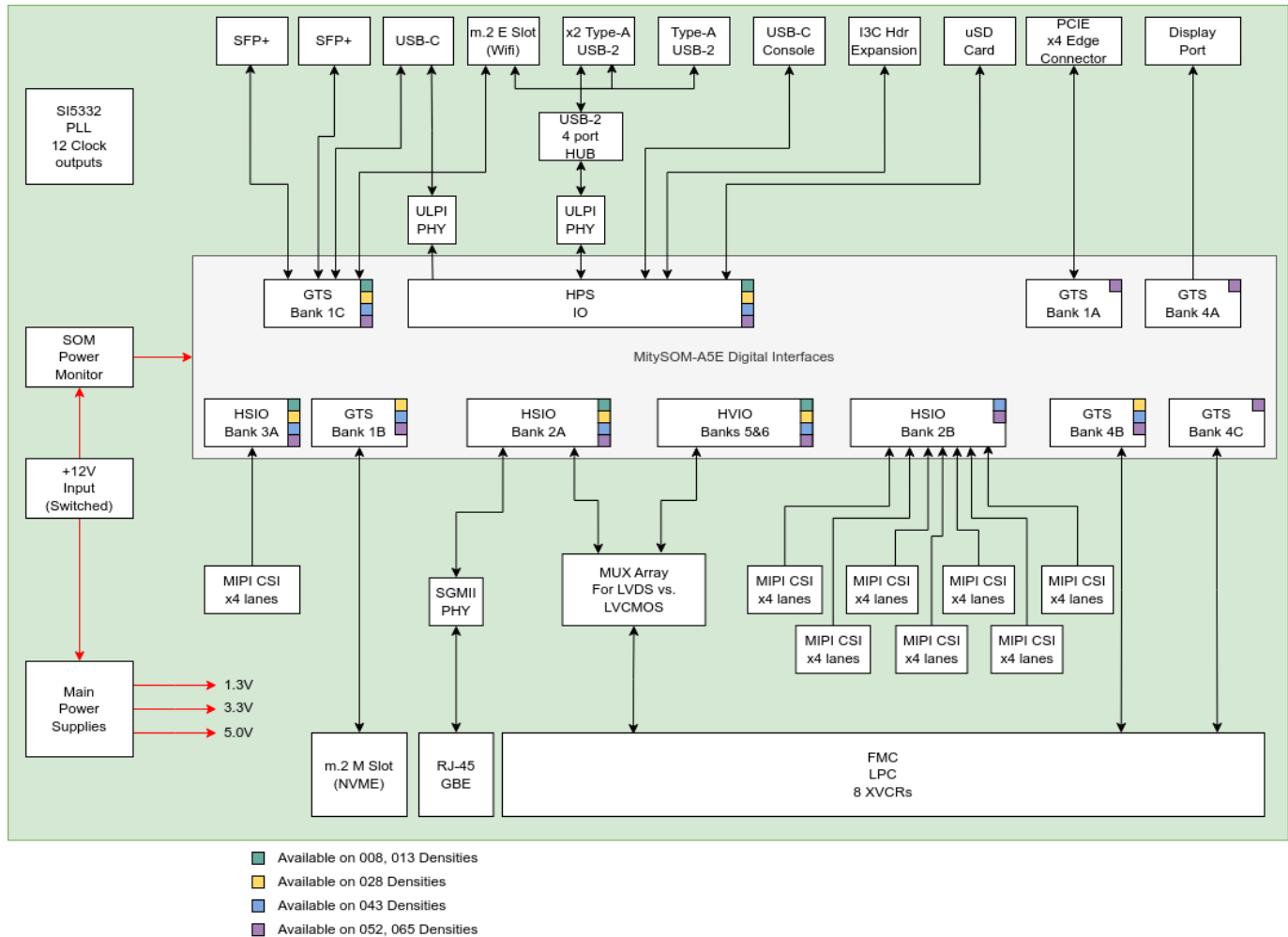
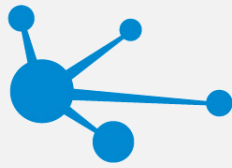
Simplify Edge AI and Sensor Fusion

Holoscan Sensor Bridge (HSB) is a low-latency, FPGA-based interface that integrates heterogeneous sensor data for real time GPU-based AI inferencing.

Key Features of Critical Link's HSB Solution:

- Agilex 5 FPGA aggregates sensor inputs
- 8 MIPI 4-Lane CSI-2 camera interfaces
- Dual 10Gb or 25Gb Ethernet transport
- FMC connector for additional sensor inputs
- Direct transfer to any NVIDIA GPU
- Precision timing for HW-based multi-sensor synchronization
- Utilizes production ready, long-lifespan SOMs
- Reference design available using IMX678 imager

Contact info@criticallink.com for access



Why Design with Critical Link:

- ✓ **Support:** Product support is second to none
- ✓ **Availability:** Continuity of supply, even in the tightest markets
- ✓ **Longevity:** SOM lifecycles average more than 15 years
- ✓ **Quality:** US-Based design, assembly, and engineering support