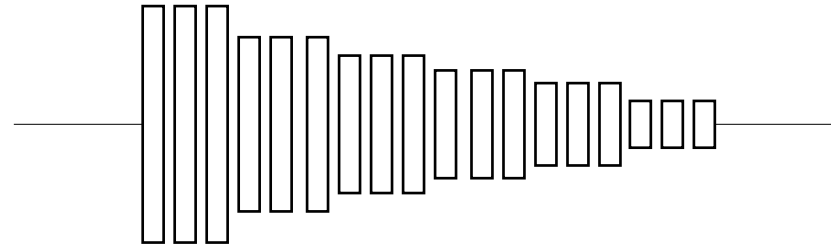
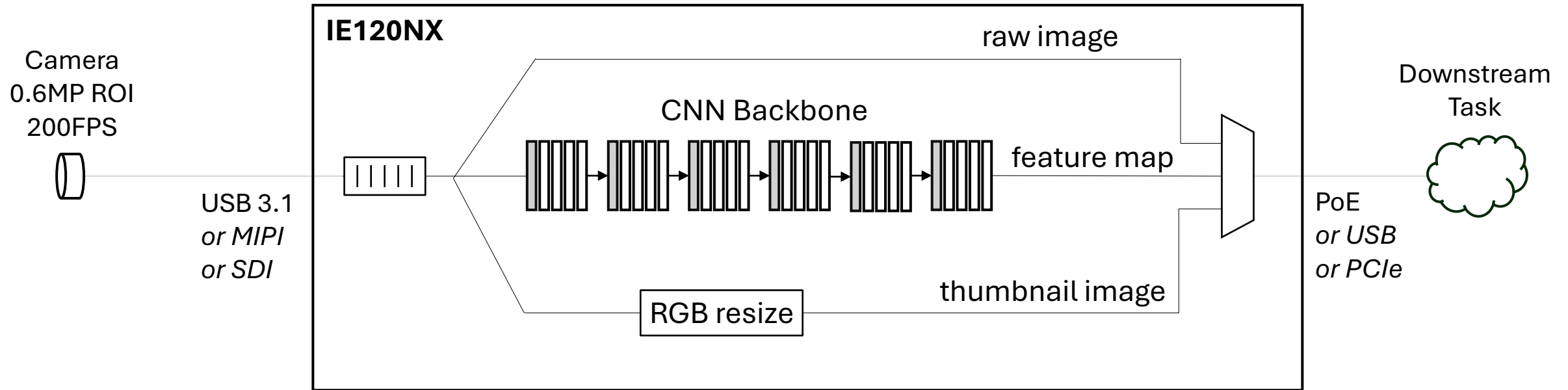


# Silicon Perception



Low Latency AI

# IE120NX Single Chip Image Encoder



# IE120NX Data Sheet

Compute Fabric	Agilex 7 027, 14M weights (FP8), 3.2 TFLOP/s (FP32)
PyTorch Model	VGG-like CNN backbone, 18 layers, 14M weights, 3 TFLOP/s
Input Shape	768x768 RGB image (FP32)
Output Shape	7x7x768 feature map (FP32)
Throughput	200 frames/s
Latency	150 $\mu$ s + transport
Power	<20 W
Camera Interface	USB 3.1 5Gb/s, <a href="#">USB3 Vision Standard</a>
Downstream Interface	PoE 12W, ARP, UDP, RTP/RTSP, HTTPS

# IE120NX PyTorch Model

