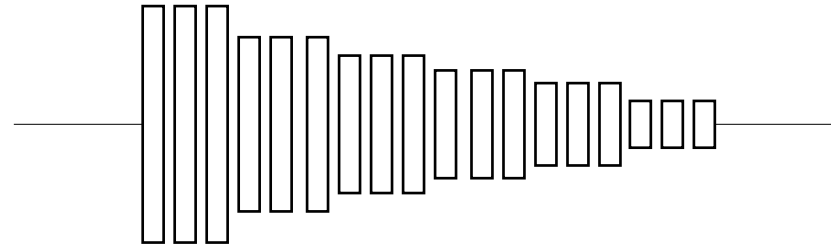
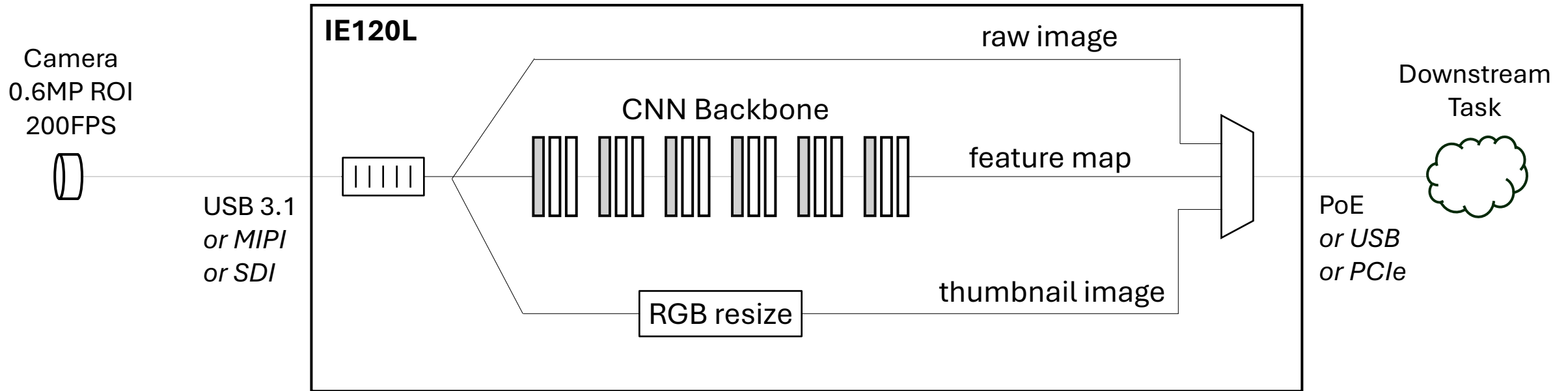


Silicon Perception



Low Latency AI

IE120L Single Chip Image Encoder



IE120L Data Sheet

Compute Fabric	Agilex AGF 014, 8M weights (FP8), 1.6 TFLOP/s (FP32)
PyTorch Model	VGG-like CNN backbone, 18 layers, 7.8M weights, 1.5 TFLOP/s
Input Shape	768x768 RGB image (FP32)
Output Shape	3x3x512 feature map (FP32)
Throughput	200 frames/s
Latency	150 μ s + transport
Power	<10 W
Camera Interface	USB 3.1 5Gb/s, USB3 Vision Standard
Downstream Interface	PoE 12W, ARP, UDP, RTP/RTSP, HTTPS

IE120L PyTorch Model

