

Table 1
Types of network for supporting composable systems at the rack, PoD and datacenter levels.

	Memory (DMI/DDR3)	GPU/FPGA (PCIe gen3)	SSD (SATA/SAS)	HDD (SATA/SAS)
Latency	~75 ns	5–10 μ s	~100 μ s	~25 μ s
Throughput	~ 920 Gb/s	12 GB/s	~100 K OPS	75–200 OPS
Rack (~3 m, ~15 ns)	Silicon photonics	TOR switch, PCIe switch, Infiniband switch	TOR switch, PCIe switch Infiniband switch	TOR switch, PCIe switch Infiniband switch
PoD (~50 m, ~250 ns)	Optical circuit switch (OCS)	Flat network (Spine–Leaf), OCS	Flat network (Spine–Leaf), OCS	Flat network (Spine–Leaf), OCS
Datacenter (~200 m, ~1 μ s)	Optical circuit switch (OCS)	Flat network (Spine–Leaf), OCS	Flat network (Spine–Leaf), OCS	Flat network (Spine–Leaf), OCS