



Ciena's 5170 Platform cost-effectively addresses business opportunities related to high-bandwidth applications at the network edge. It was developed to reliably deliver up to 100GbE connectivity to enterprises, mobile backhaul sites, and data center interconnect in a small-footprint, low-power solution to address today's network challenges.

Driving the industry toward 10GbE and 100GbE service delivery

Continued annual growth in bandwidth demands, from access to metro, is resulting in a mix of connections and services, from 1GbE to 10GbE aggregation and 10GbE to 100GbE aggregation. In addition, demand for high-speed 100GbE UNI services is increasing unabated. The rising popularity of services exceeding 1Gb/s—and even 10Gb/s rate—is creating new business opportunities for highly optimized 10GbE to 100GbE aggregation. This shift to higher-bandwidth services means regional IP and Ethernet networks, once optimized for lower 1GbE rates, are no longer aligned to ongoing and emerging metro network traffic trends. The specific mix of speeds and feeds of the 5170 is purpose-built to address this shift towards higher rates towards the edge.

Dense, compact form-factor platform

Efficient use of real estate assets is a growing concern for network operators, who either host their own network equipment, or lease power and space in collocation facilities. As services multiply, operators have been forced to stack 10G-capable equipment, incurring additional collocation rental and power costs. The 5170's density allows the addition of 10GbE services without increasing the operator's footprint.

Space is increasingly limited and expensive, and network operators face substantial capital expenditures to activate new locations or must retire active equipment to free space for service delivery. Addressing bandwidth demand growth by deploying more and/or larger equipment is simply unsustainable business—economically and environmentally. Ciena's 5170 cost-effectively offers dense 100GbE service delivery in a 1RU, 600mm deep, fixed form-factor with dual pluggable power supplies and redundant cooling fans to minimize any downtime.

Features and Benefits

- Outstanding 10GbE and 100GbE density in compact form to address space constraints
- 4 x 100GbE (QSFP28) and 40 x 1/10GbE (SPF+)
- Hardware-assisted packet OAM scaled to deliver 100GbE services with guaranteed SLA differentiation
- Advanced QoS with Hierarchical Egress Shaping and Hierarchical Ingress Metering
- Carrier Ethernet, IP Routing, MPLS and Segment Routing
- ZTP for rapid, secure, and error-free turn-up of packet services
- Integrated, line-rate Service Activation Testing capabilities with built-in 100 Gb/s traffic generation and analysis
- Ciena's MCP multi-layer provisioning support for end-to-end network management control and planning
- NETCONF/YANG mechanisms to enable a fully open SDN environment
- Redundant, hot-swappable power supplies (AC or DC) and fan modules