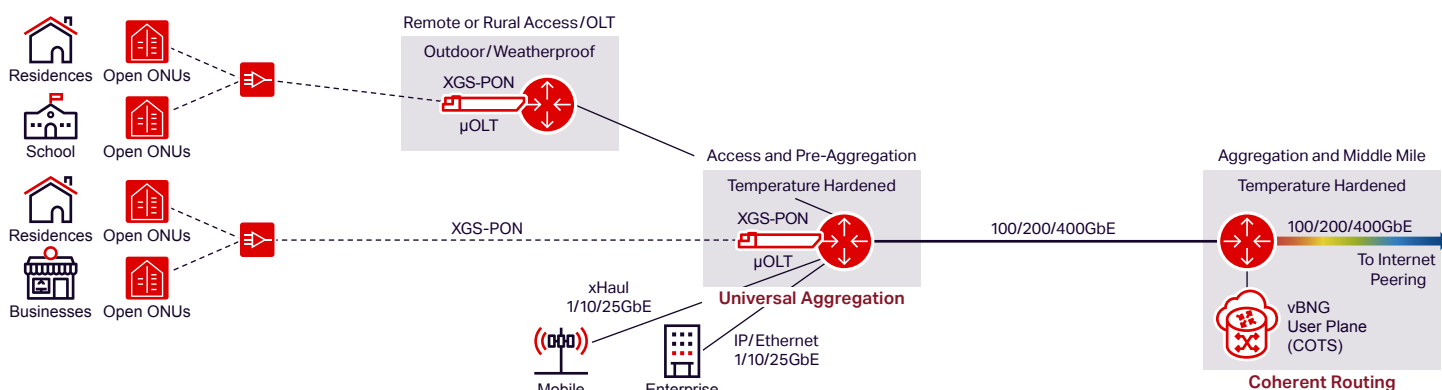


A smarter approach to broadband networks



Dare to achieve more with your broadband initiatives—make more of your investments, serve more communities, excel in service performance. Let Ciena help you navigate throughout your journey.



Explore the four pillars of the adaptive broadband architecture

Modularity



Gone are the days of bulky optical line terminals (OLTs), low fill rates, and sizing issues. No more wasting CAPEX, power, and space as you navigate take rate uncertainties.

- Start small and grow as you need, with right-sized efficiency from day one.
- Leverage pluggable μOLTs and coherent optics to add capacity on the go.
- Pick perpetual licenses to avoid OPEX traps as your customer base grows.

Scalability



As traffic continues to grow, your access and middle mile must not limit user experience or subscriber growth.

- Maximize your potential and scale traffic capacity as needed with μOLTs supporting symmetrical 10G PON access and routers supporting up to 400GbE optical plugs.
- Offer top access capacity and unconstrained user performance with a solution that is 25GS-PON ready day one and doesn't put a cap on your business success.

Openness



Keep your options open—mix and match the best technologies for each part of your network to maximize innovation, keep costs in check, and adapt your services to your market demands.

- Enjoy freedom from proprietary architectures and financial conditions of closed, single-vendor solutions across your network.
- Leverage open and standards-based designs—from wi-fi to access, middle-mile, and management platforms—to enable network evolution that fits your strategy, now and into the future.

Convergence



Build it for broadband, monetize it with other demands, drive sustainability and simplification. The routing platforms that host μOLT plugs can also provide IP services to businesses and public sector and address stringent wholesale demands—from premium last-mile access to advanced 5G xHaul.

- Converge services over a shared infrastructure.
- Monetize your broadband investments unlocking new revenues.

Get to know some of the components of Ciena's modular, open, scalable, and convergent broadband solutions

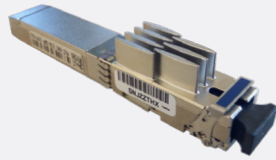
Pluggable XGS-PON μ OLTs

Top performance with minimum footprint, maximum flexibility and efficiency

XCVR-SGPL02

Temp -40 to 75°C

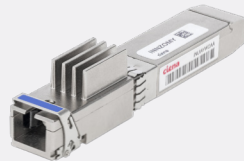
Reach 1:64 @ 20 km
1:128 max



XCVR-SGPL04

Temp -40 to 85°C

Reach 1:64 @ 20 km
1:128 max



Ciena or third-party XGS-PON ONUs

Low-cost residential or business metro access that is lightning-fast and secure

3801

2.5 Gb/s user interface



3802

10 Gb/s user interface



3806

Weatherized
2.5 Gb/s user interface

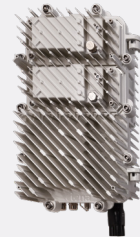


Routers/hosting platforms

Scalability and modularity in open and compact OLT hosting routers to fit the most diverse network scenarios

5131

Weatherized
360 Gb/s fabric
12x μ OLT
12x 1/10/25 GbE
2x 100 GbE



3985

Weatherized
80 Gb/s fabric
5x μ OLT
6x 1/10/25 GbE



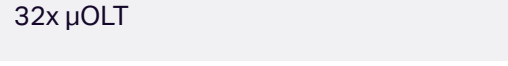
5130

1RU i-temp
360 Gb/s fabric
12x μ OLT
12x 1/10/25 GbE
2x 100 GbE



5164

1RU i-temp
800 Gb/s fabric
32x μ OLT
32x 1/10/25 GbE
4x 100/200 GbE



Multi-layer network management

Single pane of glass for managing performance and lifecycle of all network elements: control and simplicity



Navigator
Network
Control Suite™

virtual BNG

Open, highly flexible, and agile
CUPS BNG—easy to scale up or
scale out, accelerating the edge



Ciena's
vBNG