

Multi-Gigabit Broadband for Every Brownfield MDU

Unlock new revenue opportunities in both higher and lower-density MDUs using the cOS™ broadband platform. Deliver premium data, voice, and video services over existing in-building coax and fiber wiring without delays, rewiring, or disruption.

Fiber speeds. No delays. No rewiring.

Deploy faster by tapping into existing in-building wiring. Eliminate complex retrofits and accelerate time to service without sacrificing performance or flexibility.

Preserve QoE. Minimize disruption.

Upgrade properties without interrupting service or disturbing residents. Harmonic's flexible options help operators enhance quality of experience (QoE) while modernizing infrastructure at their own pace.

Scalable deployment, any density.

Serve 4 or 400 units with ease. Whether installed indoors or outdoors, on strands, walls, poles or pedestals, Harmonic's MDU solutions adapt to property needs and density requirements with minimal overhead.

One platform. Unified control.

Manage PON and DOCSIS services together using the cOS™ broadband platform. A single pane of glass simplifies operations, boosts efficiency, and reduces the total cost of ownership.

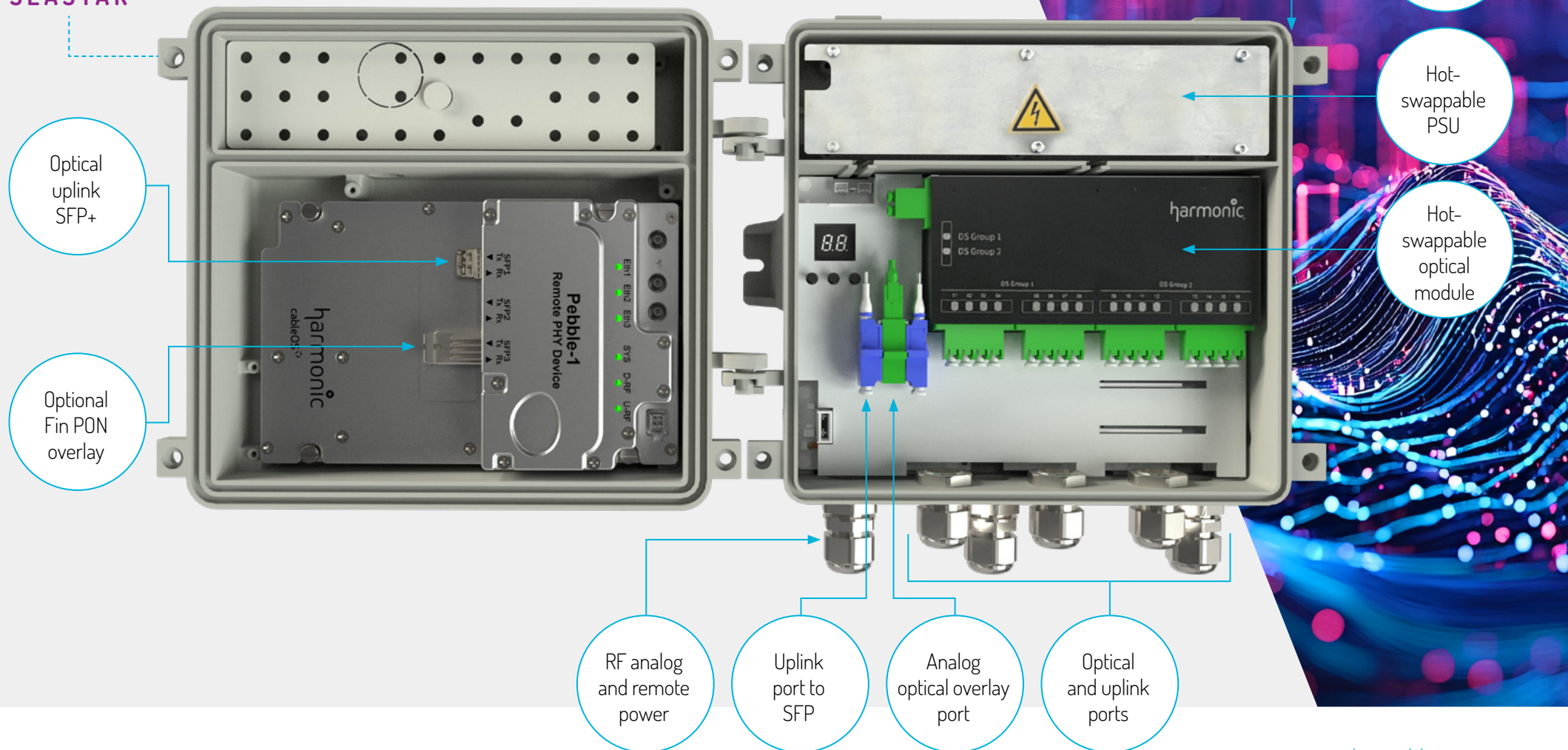
Unlock new
revenue
opportunities

in both higher and
lower-density MDUs

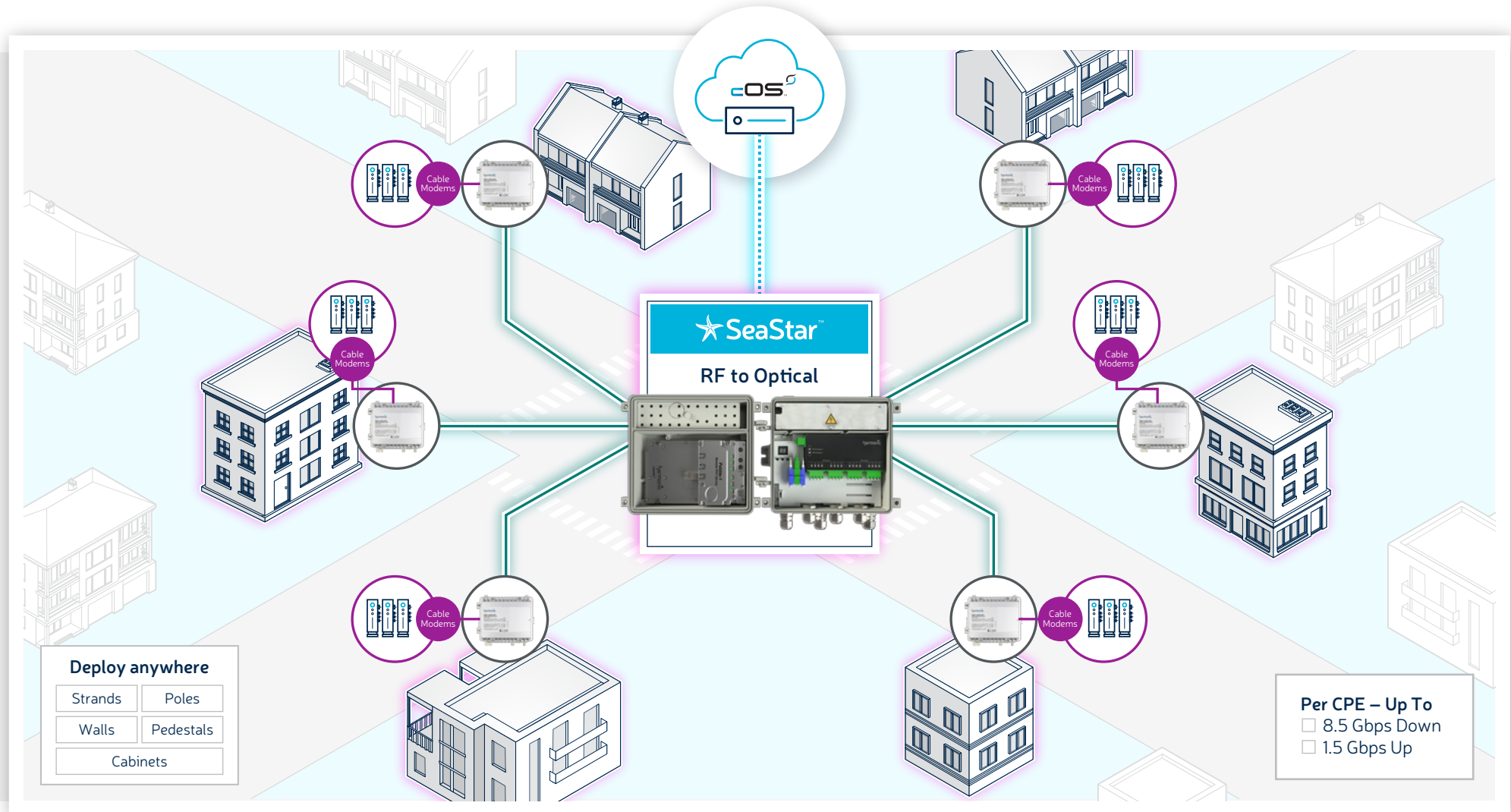
Lower-Density MDU Solutions

Make multi-gigabit broadband service delivery to multiple lower-density MDUs a revenue expansion opportunity with Harmonic's **SeaStar Optical Node**.

SEASTAR



SeaStar Node: Lower-Density MDUs



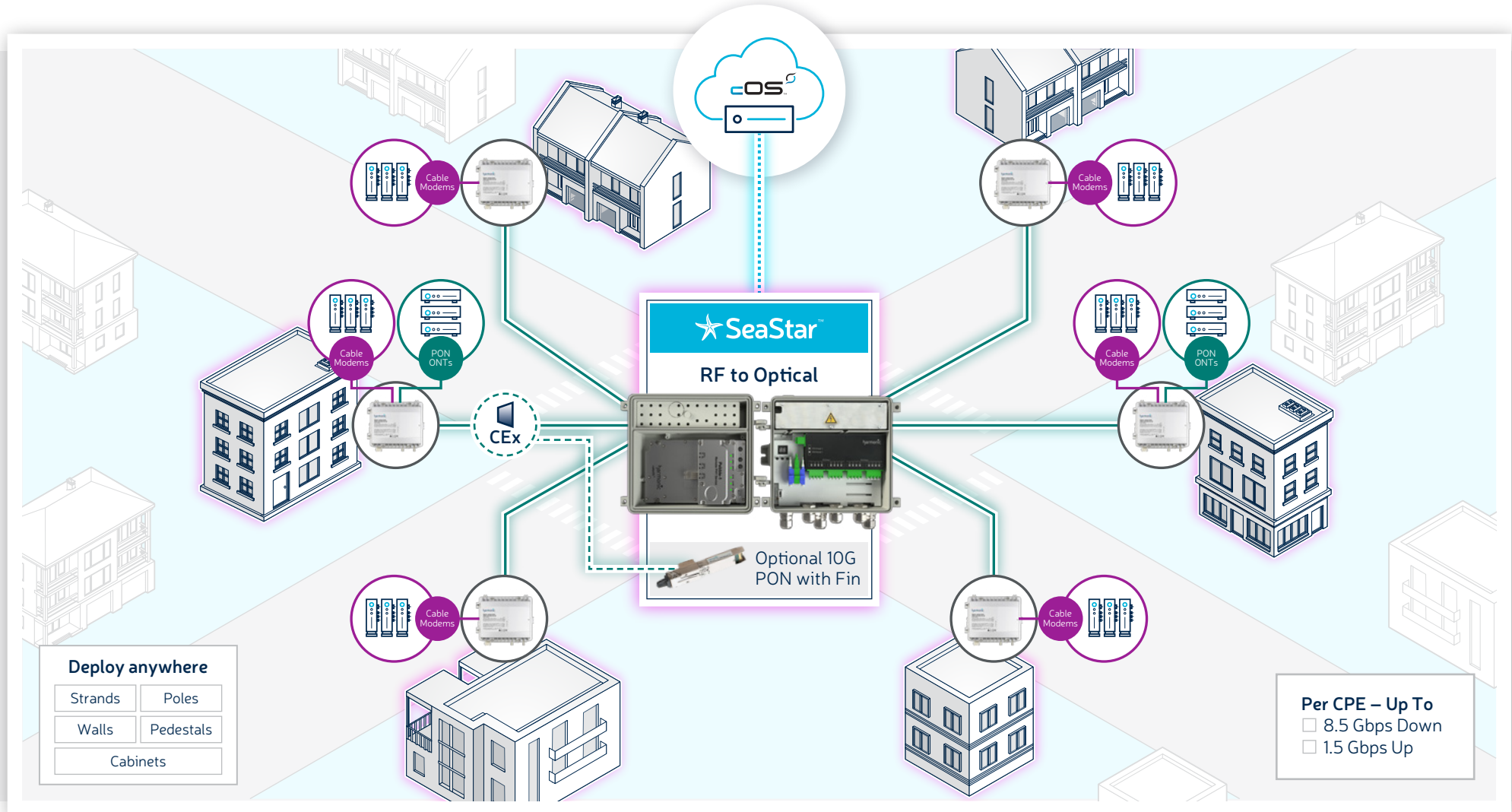
Optical Uplink
Optionally use PON SFP+ ONT

In-building Optical Nodes
Optical to RF Converter

Optical fan-out
(1:16, up to 5 km)

Coaxial

SeaStar Node: Lower-Density MDUs (Internal OLT w/ Fin)



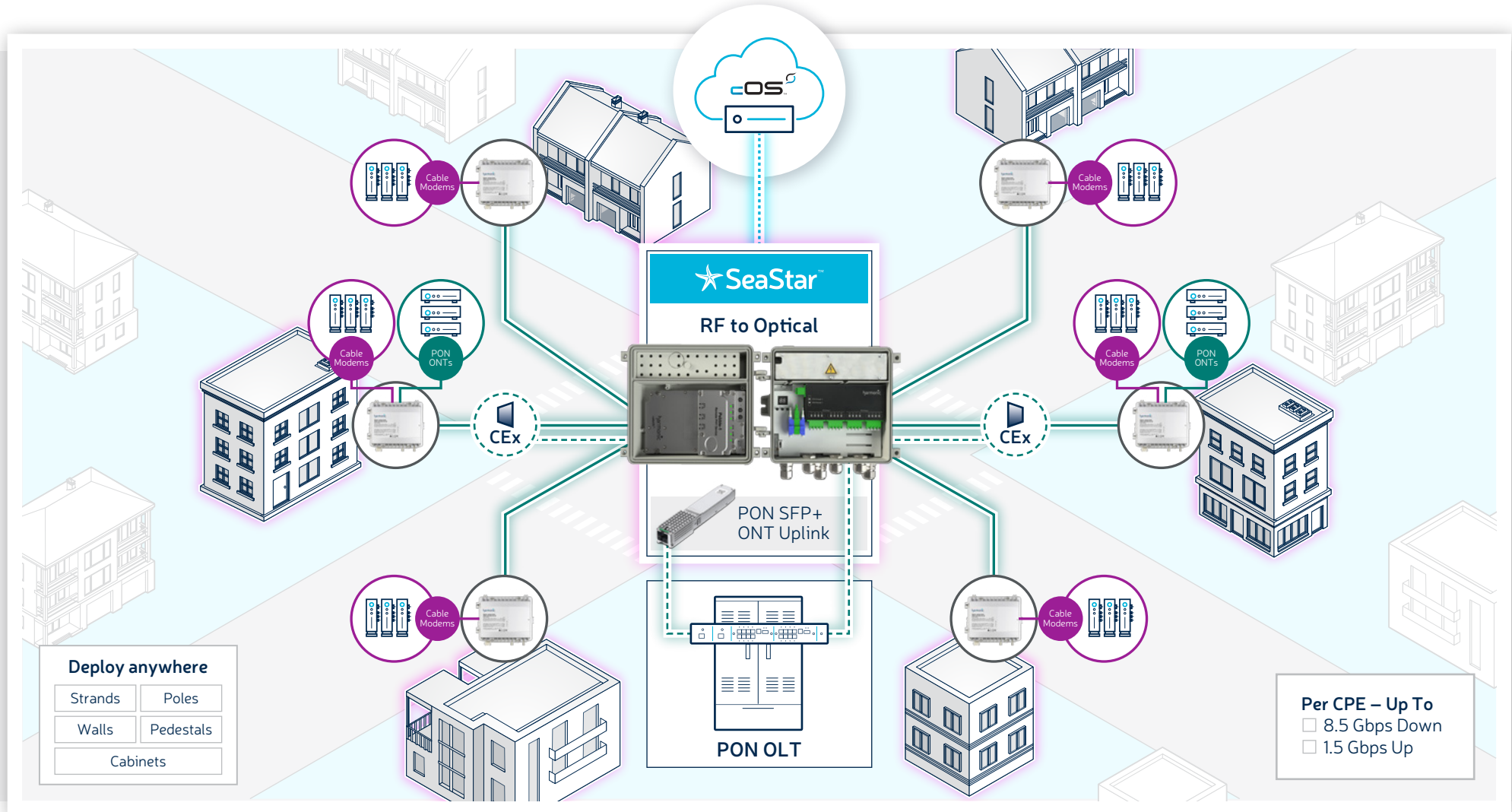
Optical Uplink
Optionally use PON SFP+ ONT

In-building Optical Nodes
Optical to RF Converter

Optical fan-out
(1:16, up to 5 km)

Fiber **Coaxial**

SeaStar Node: Lower-Density MDUs (External OLT & PON Uplink)



Optical Uplink
 Optionally use PON SFP+ ONT

In-building Optical Nodes
 Optical to RF Converter

Optical fan-out
 (1:16, up to 5 km)

Fiber
Coaxial

Higher-Density MDU Solutions

Simplify broadband service delivery to higher-density MDUs with Harmonic's **Oyster Low-Power DAA Node** or **Wave Compact DAA Shelf**.

WAVE

Compact 1 RU Remote PHY

Low-power

1x1&1x2 Segmentation

AC or DC dual redundant

Hot-swappable PSUs & line cards

OYSTER

Small form factor

Spacious fiber tray

Hot-swappable PSU

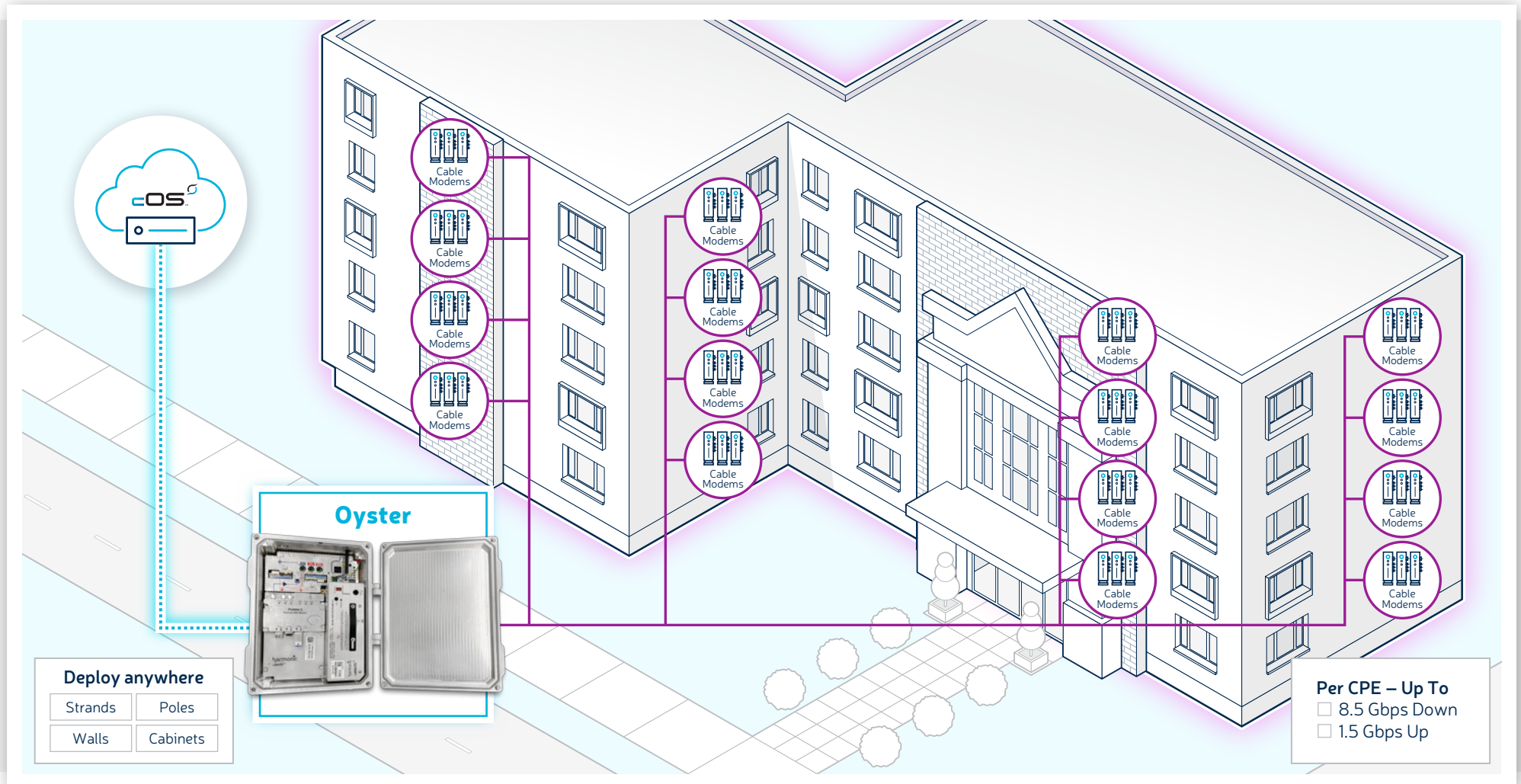
10G optical uplink SFP+

AC & DC power

Cable-free lid



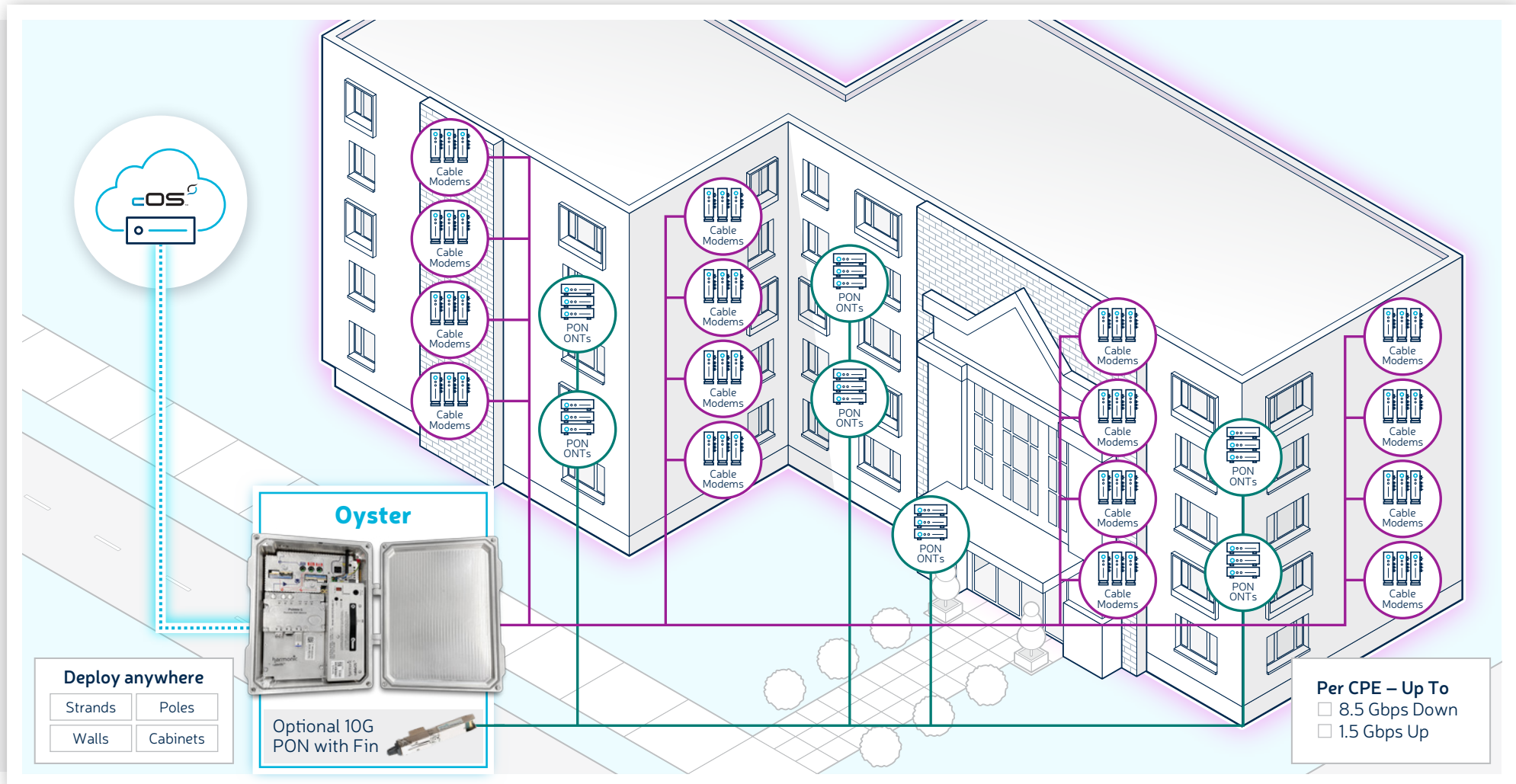
Oyster Node: Higher-Density MDUs



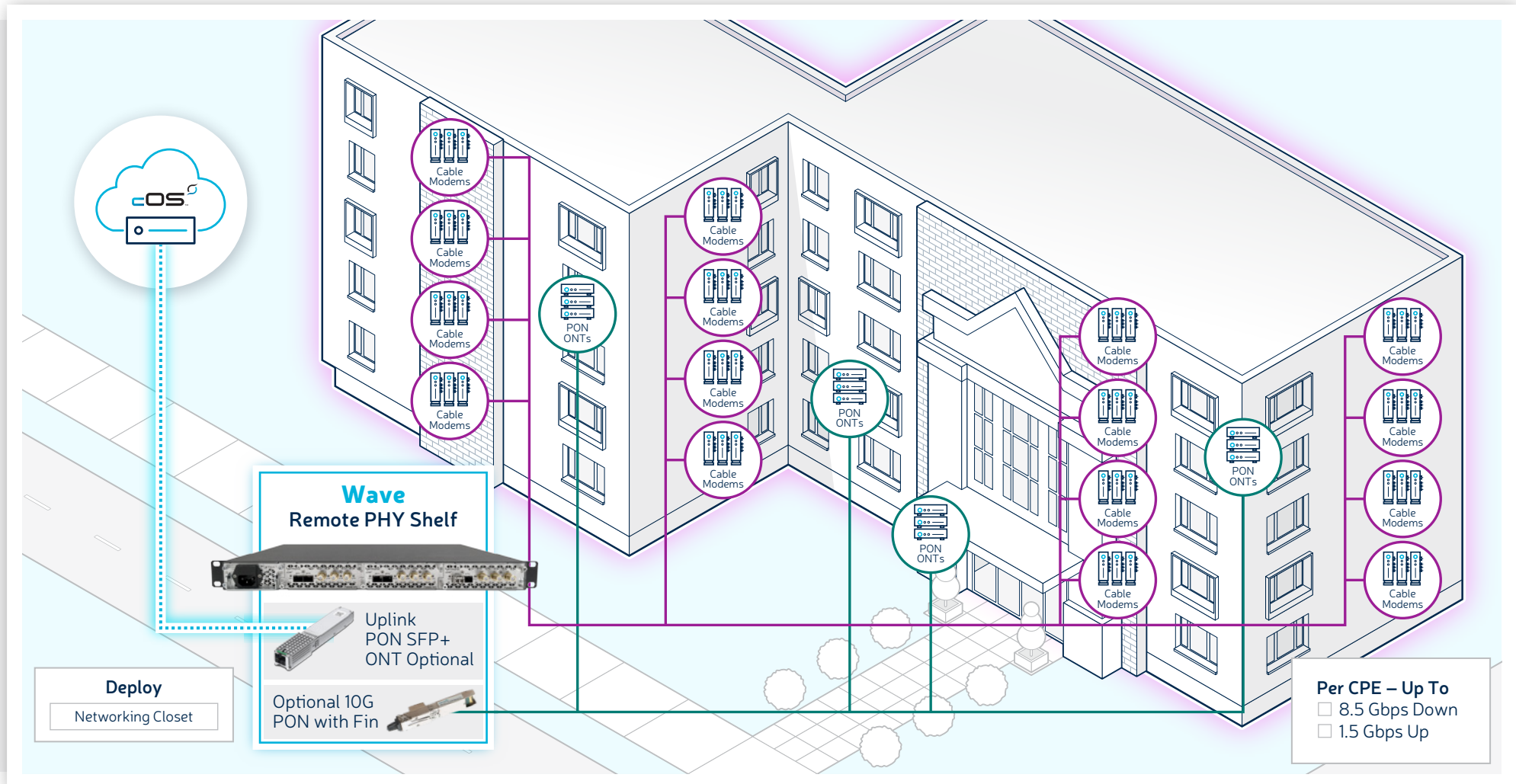
Optical Uplink
Optionally use PON SFP+ ONT

Coaxial

Oyster Node: Higher-Density MDUs (Internal OLT w/ Fin)



Wave Shelf: Higher-Density MDUs



Optical Uplink
Optionally use PON SFP+ ONT

Fiber **Coaxial**