

cOS FIBER SOLUTIONS

A comprehensive broadband ecosystem for fiber-to-anything applications



Harmonic's cOS[®] virtualized broadband platform enables fast deployment of fiber services to more locations over longer distances with less equipment. Powered by the cOS virtualized core software platform, the solutions are proven across more than 23 million active homes served by more than 100 leading operators.

DESIGNED TO GENERATE SAVINGS

The cOS core software, including vBNG functionality, intelligently manages Harmonic's versatile portfolio of network edge devices, as well as an array of third-party devices. It is incredibly resilient, scalable and highly performant. The software platform is constantly optimized for cost using the latest enterprise processors and continuously elevates performance. As servers improve, new capabilities can be added to your network without having to change out physical edge devices.

EXTENDED FIBER BROADBAND SERVICE REACH WITH MINIMAL INVESTMENT

cOS core software powers Harmonic's portfolio of hardened edge devices, including high-density switches, optical line terminals (OLTs) and nodes in various form factors that can be placed in outdoor cabinets, strands, pedestals and walls. The use of longrange coherent optics for extended middle-mile reach and high-output OLTs for the last mile provides the versatility to serve more subscribers from fewer locations without the need for major construction or building maintenance.

BROADBAND TRANSPORT OVER ANY WIRE

Providing 10G fiber services to markets, sites, buildings and complexes with pre-existing coax wiring is easy with a cOS solution. The virtualized core software can simultaneously support OLTs and the Remote PHY devices (RPDs) used in cable broadband, allowing operators to deploy fiber broadband services anywhere and accelerate time to market by mitigating the real-world challenges associated with network deployment.



Achieve 99.999% service availability

OPEN ONUS &

Unlike vendor-locked ecosystems, the cOS platform allows operators to use any thirdparty optical network unit (ONU) or optical network terminal (ONT). As a result you can purchase ONUs and ONTs based on your business and network requirements, whether related to pricing, availability, port count, voice capability, Wi-Fi performance, weather resiliency or other characteristic critical to ensuring the best subscriber experience. This freedom of choice can also have a positive material impact on your bottom line.

DISTRIBUTED ACCESS ARCHITECTURE & ENHANCED EFFICIENCY

The cOS broadband platform deployed in a distributed access architecture (DAA) leverages virtualization to enhance network efficiency and enable more flexible compute. The cOS core software performs all compute heavy data processing on enterprise servers. The edge device, the OLT, is then more cost-effective, with zero sacrifice to capability. With the same net result that the virtualized core offers, given the volume of OLTs, you can also achieve economies of scale doing the compute on a semi-centralized core.

PROACTIVE NETWORK

Harmonic's cOS Central leverages the cOS core software to continuously monitor the network and its connected devices, delivering real-time data feeds through opt-in streaming telemetry. Integrated artificial intelligence utilizes this information to provide insight into system-wide activity, helping to ensure fewer service issues and increase net promoter scores.







GAIN THE COMPETITIVE ADVANTAGE WITH HARMONIC FIBER SOLUTIONS

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MATURE TECHNOLOGY

Trusted by more than 100 leading broadband providers worldwide, Harmonic's Emmy® Award-winning cOS virtualized core software powers high-speed connectivity for tens of millions of subscribers.



NETWORK CONVERGENCE

Simultaneous support for the OLTs used in PON networks and the RPDs used in cable broadband simplifies the delivery of 10G fiber services, even over pre-existing coax.



DEPLOYMENT VERSATILITY

cOS virtualized core software and network edge devices enable the delivery of highspeed broadband for a range of applications, including cellular backhaul 10G enterprise broadband, FTTH and FTTP for MDUs.



PROACTIVE INTELLIGENCE

Ensure consistent service excellence with streaming telemetry data and Al-based actionable insights to optimize performance, as well as reduce truck rolls and trouble tickets.



EXTENDED SERVICE REACH

Ultra-long-range coherent optics and high-output OLTs simplify the ability to reach underserved and rural communities in addition to densely populated residential and business districts.



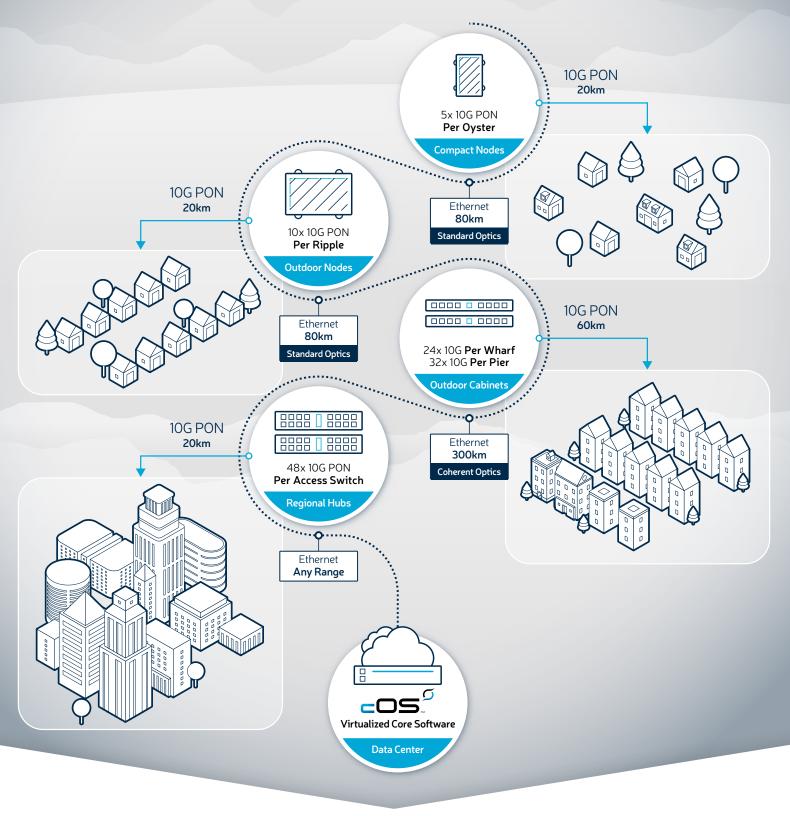
COST-OPTIMIZED OPERATIONS

Minimize new construction, permitting and building constraints, and reduce costs with high-density hardened OLT shelves that are easy to deploy in outdoor cabinets, or remote OLTs in hardened outdoor nodes.





GO FURTHER WITH THE COS PLATFORM





A COMPREHENSIVE FIBER BROADBAND SOLUTION

Provide high-speed connectivity, superior network performance and an always-on subscriber experience with Harmonic's cloud-native cOS software platform and versatile family of network edge devices.



cOS Central offers a powerful set of applications for ensuring optimal network performance, including advanced streaming telemetry that provides real-time intelligence and AI-generated recommendations for proactively resolving issues before they affect service.

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easing the ability to deliver high-speed

video, data and voice services over coax.