technetix

XFO series

Revolutionary 1.8 GHz faceplate-only upgrade solution

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The industry challenge and the XFO solution

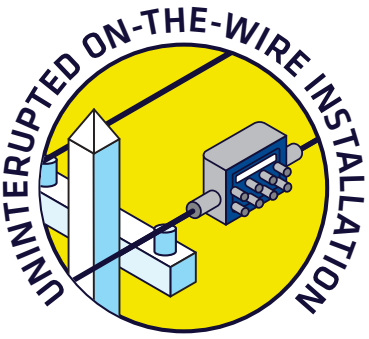
Cable operators worldwide are preparing for the next generation of network capabilities, where Extended Spectrum DOCSIS® will enable unprecedented speeds—over 10 Gbps downstream and 6 Gbps upstream—all while utilizing existing Hybrid Fiber-coaxial (HFC) infrastructure. However, traditional network upgrades require cutting hardline cables, installing new housings, and temporarily shutting down RF and power services, creating significant disruption and requiring highly specialized technicians.

The XFO series represents Technetix' technological breakthrough that transforms this process entirely. This patented innovation allows operators to upgrade to 1.8 GHz capacity by simply replacing the faceplate on existing legacy multitap housings, completely eliminating the need for service interruptions or extensive infrastructure modifications.



Unmatched compatibility and performance

The XFO series is universally compatible with all original legacy Motorola, Regal-style, SA/Cisco-style (wide and narrow body) and SA/Cisco-style 9inch, with the Antronix options in development. This remarkable compatibility eliminates the traditional requirement to splice in new multitap housings when upgrading to 1.8 GHz capacity. The product features an advanced mechanical and electrical impedance matching design that solves the challenges presented by legacy housings, creating excellent RF performance by eliminating the typical performance dip around 1.4 GHz. This patented technology ensures flat insertion loss and acceptable return loss levels across all official



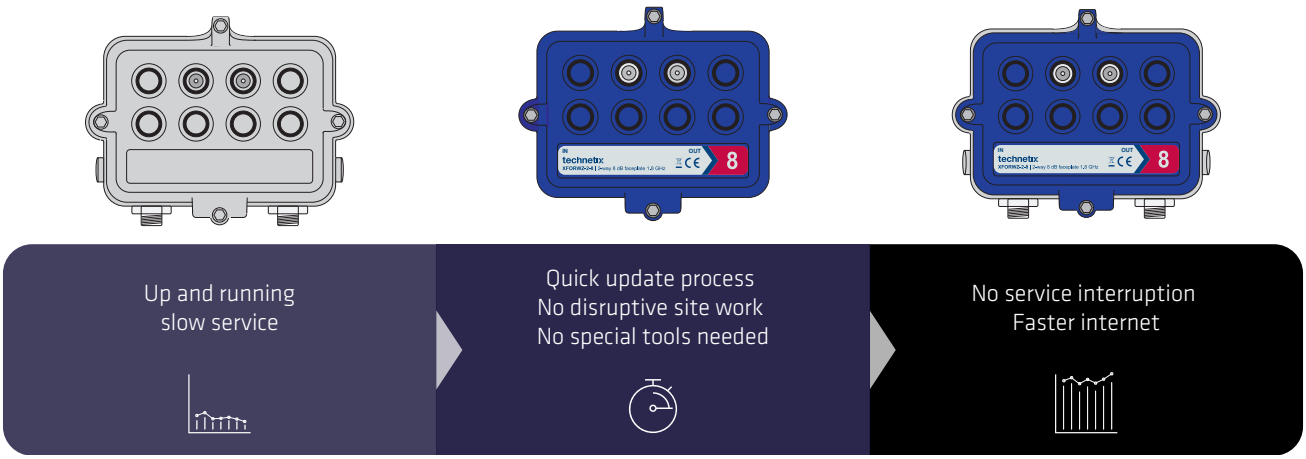
XFO Motorola, Regal and SA/Cisco-style



The XFO advantage: revolutionary upgrade path

Zero service interruption and enhanced customer experience

Perhaps the most significant operational advantage of the XFO series is its ability to maintain complete power and radio frequency continuity throughout the upgrade process. This continuity ensures that end users experience no service interruption while operators modernize their networks. By eliminating downtime, cable providers can significantly reduce customer dissatisfaction and potential customer churn that typically accompany traditional network upgrades. Your subscribers remain connected to their critical services while you simultaneously prepare your infrastructure for future demands.



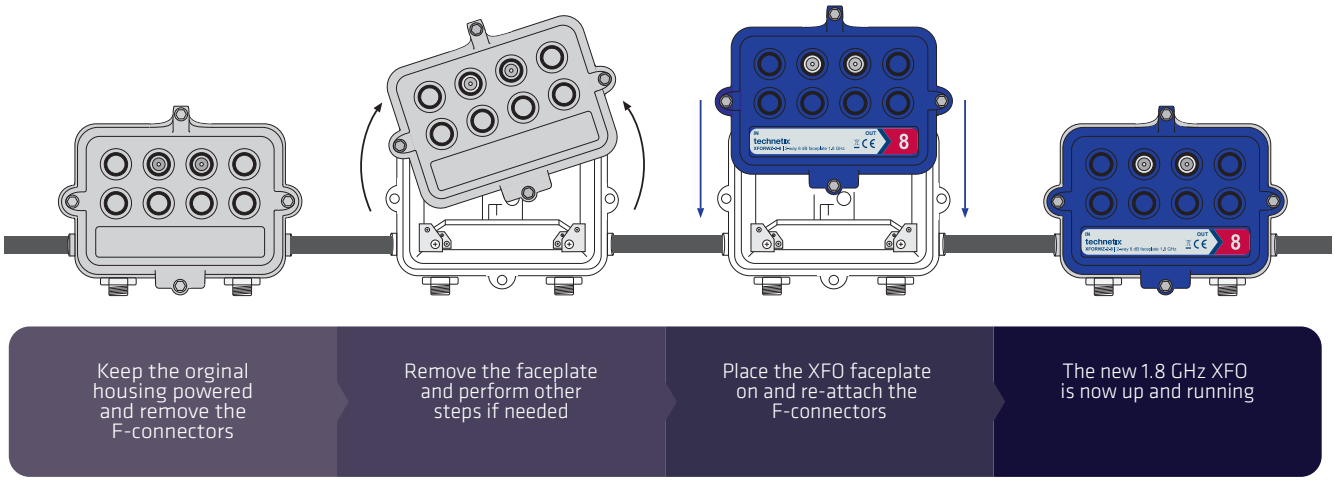
Dramatic time and cost optimization

The XFO solution eliminates expenditures on new housings, hardline connectors, and heat shrinking materials, while reducing labor costs through a greatly simplified installation procedure. Additionally, the straightforward installation process requires less technical expertise, allowing operators to deploy less specialized personnel for these upgrades and redirect their most experienced technicians to more complex tasks.



Simplified installation process and deployment strategy

The XFO series transforms the logistics of network upgrades by drastically simplifying the installation process. With this innovation, operators require less technical expertise for network-wide upgrades, making the process accessible to technicians with varied experience levels. This accessibility allows for more flexible workforce allocation during major upgrade initiatives. Operators can immediately begin a 'business as usual' approach to 1.8 GHz upgrades, gradually enhancing network capacity without the planning complexity and resource allocation traditionally required for full housing replacements. The backward compatibility with legacy systems ensures a seamless integration into existing network architectures.



Exceptional RF performance for future services

The XFO's advanced mechanical and electrical matching circuits deliver exceptional RF performance while overcoming the inherent limitations of legacy housings. Traditional approaches typically suffer from performance dips around 1.4 GHz when used with older infrastructure, but the XFO's patented design eliminates this issue entirely. By enabling full 1.8 GHz capacity, the solution supports Extended Spectrum DOCSIS with its impressive capabilities—downstream speeds exceeding 10 Gbps and upstream speeds surpassing 6 Gbps. Each XFO product undergoes rigorous testing to ensure flawless compatibility with authentic legacy housings, guaranteeing consistent performance across your entire network deployment.

Superior signal conditioning options

The XFO series maintains full compatibility with XGT series conditioning plug-ins, offering flexible options for cable equalizers and simulators up to 18 dB. This compatibility ensures operators can fine-tune network performance to meet specific regional requirements without additional infrastructure modifications, and redirect their most experienced technicians to more complex tasks.

Comprehensive waste reduction strategy

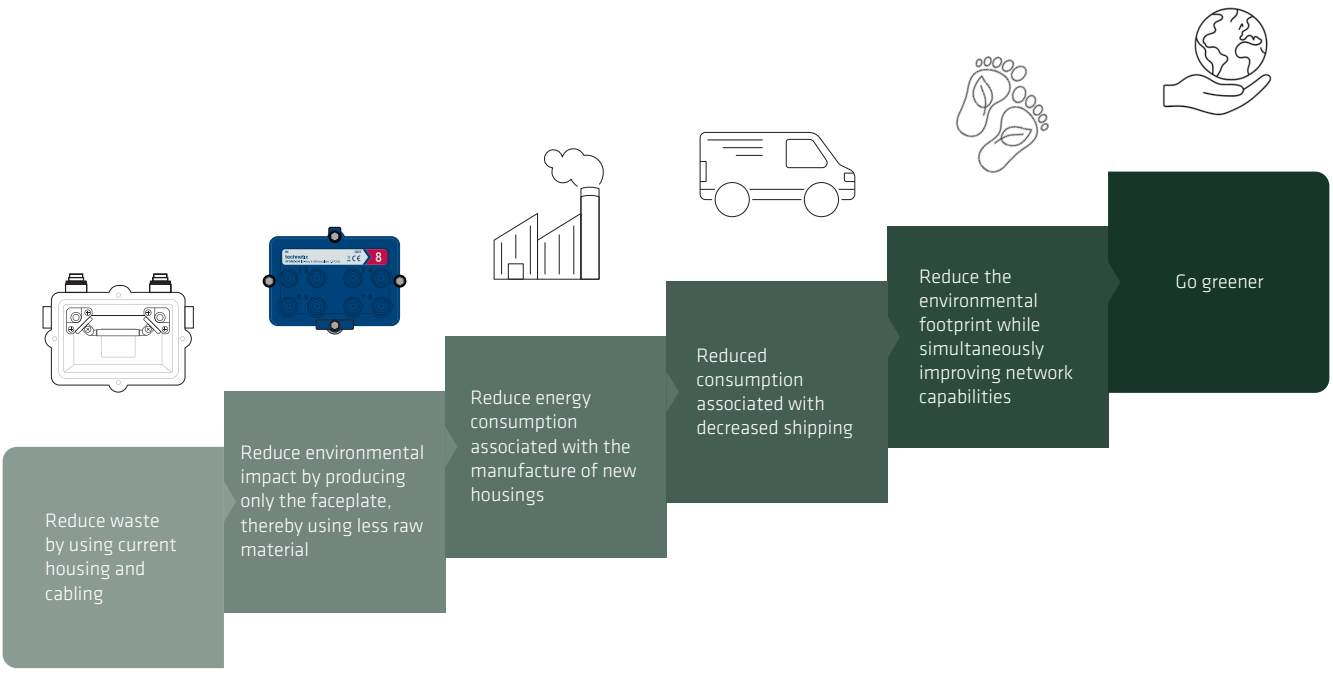
The XFO series embodies sustainable innovation by enabling the reuse of existing multitap housings rather than their wholesale replacement. This approach minimizes the disposal of functional equipment that would otherwise contribute to electronic waste streams during network upgrades. By focusing replacement efforts solely on the components that require upgrading for enhanced performance, operators can significantly reduce their environmental footprint while simultaneously improving network capabilities.

Strategic resource conservation

By eliminating the need for new housings during upgrades, the XFO series substantially reduces raw material consumption across the cable industry. This reduction extends beyond the physical components to include decreased energy consumption associated with manufacturing new housings and lower transportation emissions resulting from shipping only faceplate components instead of complete multitap assemblies. This comprehensive approach to resource conservation aligns network evolution with environmental responsibility.

Maximizing infrastructure investment value

Perhaps most importantly from a sustainability perspective, the XFO series transforms existing hardware to meet future bandwidth requirements without replacement. This transformation maximizes the return on previous infrastructure investments and creates a sustainable upgrade path for decades-old network components. By extending the functional lifespan of installed network elements, operators can implement more sustainable long-term planning while still maintaining competitive service offerings.



Industry recognition and market adoption

The XFO multitap has earned top honors in the Diamond Technology Reviews in 2023, receiving the highest score among all submissions and validating its revolutionary approach to network upgrades. Throughout 2024, the solution has secured approvals from major operators across North America, including successful field trials and a milestone deployment with a leading Tier 1 operator. This industry recognition underscores the XFO series' role in setting new standards for network evolution in the cable industry.

Future-proof your network today

The XFO series represents a quantum leap in HFC network upgrade strategy. Traditional DOCSIS 4.0 roadmaps present numerous challenges, particularly when deploying passive components like multitaps. While replacing broken components with 1.8 GHz passives has already proven advantageous compared to maintaining 1.2 GHz infrastructure, the XFO series takes this efficiency to an unprecedented level for mass upgrades.

By eliminating traditional barriers to network evolution, service interruptions, specialized labor requirements, extensive material needs, and high replacement costs Technetix has created a pathway that is not only technically superior but economically transformative. As cable operators plan their transition to Extended Spectrum DOCSIS capabilities, the XFO series provides an implementation strategy that aligns technical advancement with operational efficiency and environmental responsibility.

Contact your Technetix representative today to discover how the XFO series can revolutionize your approach to 1.8 GHz network upgrades.



If you would like further information on the content of this brochure, please contact:

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