



AlphaGateway

RELIABLE CONNECTIONS FOR A CONNECTED WORLD



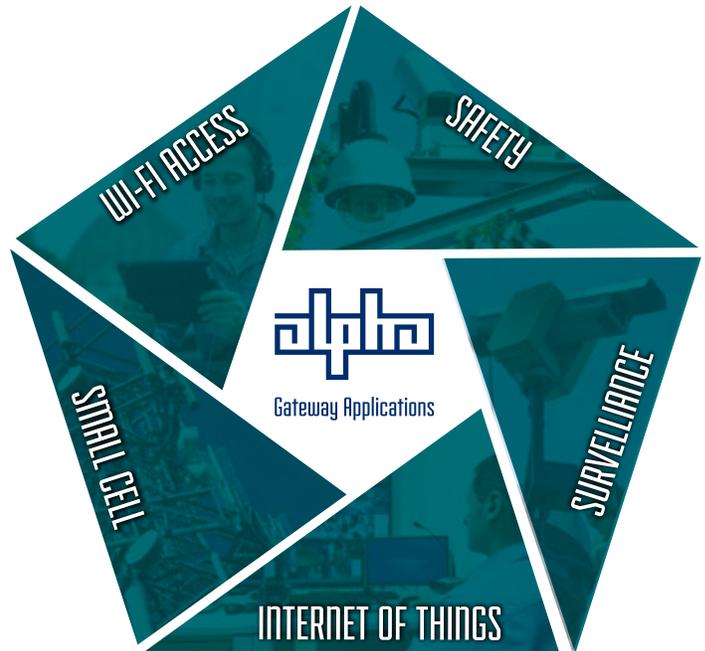
AlphaGateway—The Enabling Technology

AlphaGateway Family

With over 40 years of broadband cable TV powering expertise and over 1 million hardened modems in operation today, **the AlphaGateway family represents Alpha's next-generation of environmentally hardened power and backhaul solutions.** All AlphaGateway family products are designed to meet the unique needs and growing demand for reliable data backhaul.

Each AlphaGateway blends HFC plant power conversion and data backhaul capacity to deliver power and communications for small cell, Wi-Fi, IoT, security and public safety. Easily monitored and controlled via EMS, each AlphaGateway model allows for flexible, strategic placement of interactive devices throughout the outside plant network.

- Easily deployed solution with minimal capital investment
- Enhanced services for existing customers
- Access for MSOs to new revenue opportunities



Alpha's SM gateway is designed to be strand-mounted at any point along the outside plant network.



An Alpha XM gateway enables Wi-Fi, small cell or IP camera backhaul at the power supply.



Capitalize on the Connected World



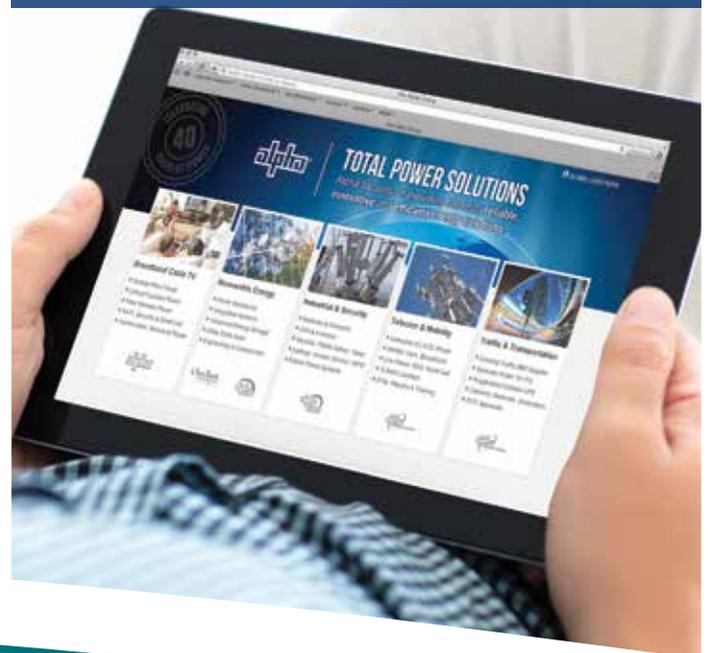
The Smart City Revolution

From transportation and traffic to energy and emergency services, **cities are leveraging the internet to manage critical assets and infrastructure**. Bringing to life the vision of Smart Cities and making reliable connections to the Internet backbone a vital element of mission critical services.

This transition changes the landscape for MSO's as new revenue opportunities that leverage HFC infrastructure emerge.

- Internet of Things (IoT) is changing the nature of communication
- Proprietary communication networks are costly and unreliable
- HFC network offers reliable power and backhaul capacity
- With the right enabling technology, MSOs can capitalize

Reliable connections will become critical as there will be an estimated 30 billion internet-connected wireless devices by 2020.

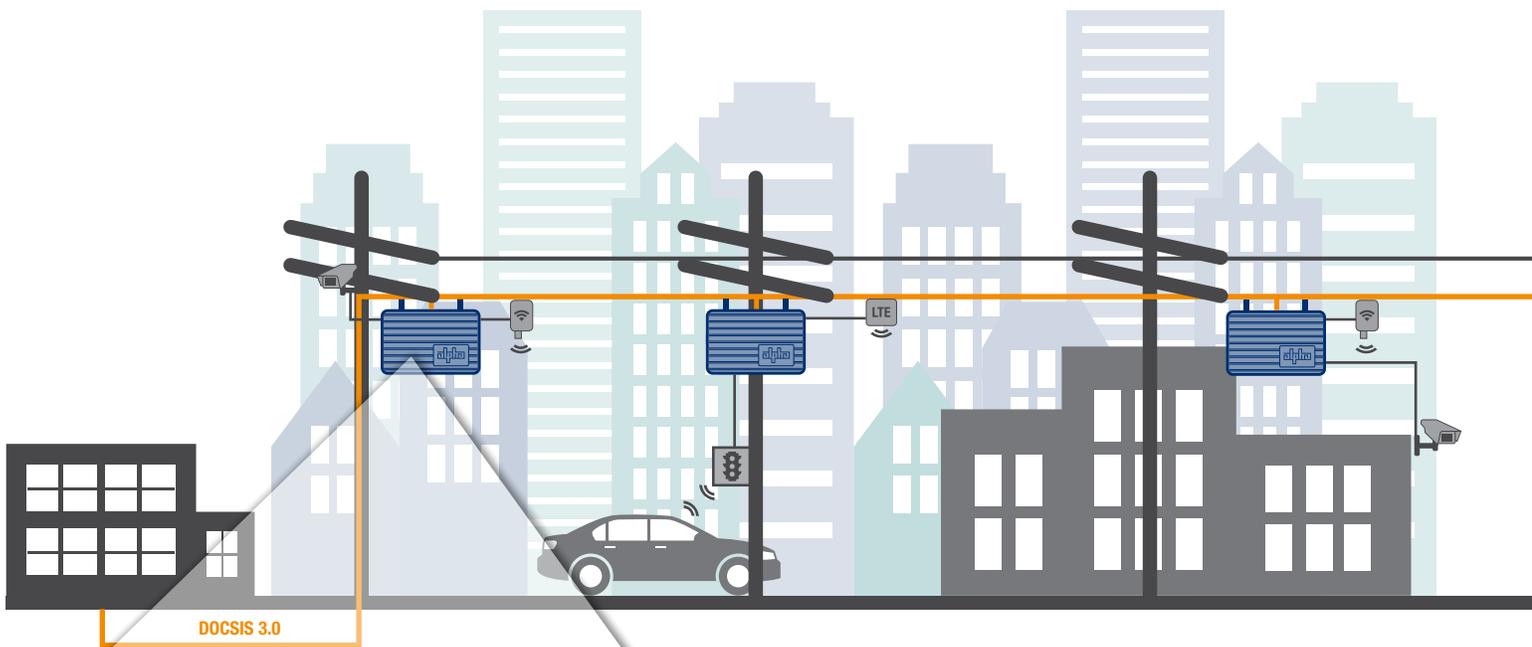


The Broadband Power Grid

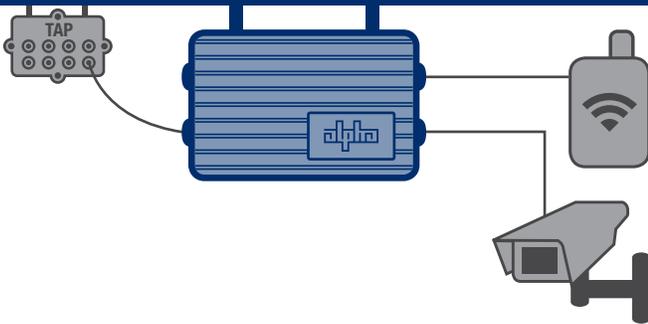
Vast HFC networks already exist around the globe. Common to these networks is a supply of clean, reliable power with battery backup and high bandwidth data backhaul capacity—a broadband power grid that combines high speed data with uninterrupted power. Inherent benefits of the broadband power grid include:

- Separate from the traditional utility grid
- Extremely well maintained
- Battery backup reliability
- High bandwidth backhaul capacity

Backhaul on the Strand



A single AlphaGateway SMG can power and provide backhaul for multiple devices such as Wi-Fi AP's and security cameras.



AlphaGateway SMG

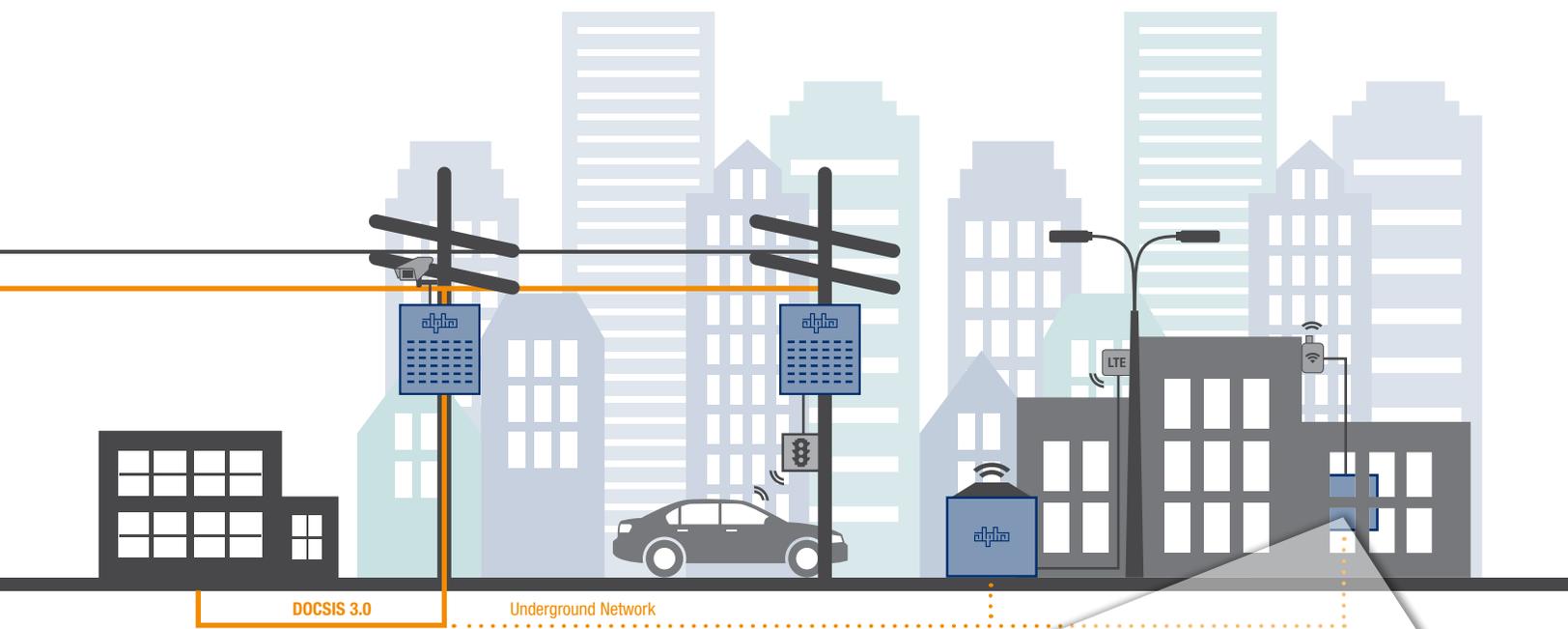
The strand-mount AlphaGateway SMG combines HFC power and a hardened DOCSIS modem to provide power and communications at any point along the outside plant network.

When paired with one or more peripheral devices, the AlphaGateway SMG enables Wi-Fi, small cell or video backhaul to virtually any strand-mountable location.

Engineered to leverage the existing HFC network, the AlphaGateway SMG offers MSOs:

- HFC network UPS power
- High bandwidth backhaul
- No permit strand mounting
- Minimal time and resource deployment

Backhaul at the Power Supply



AlphaGateway XMG

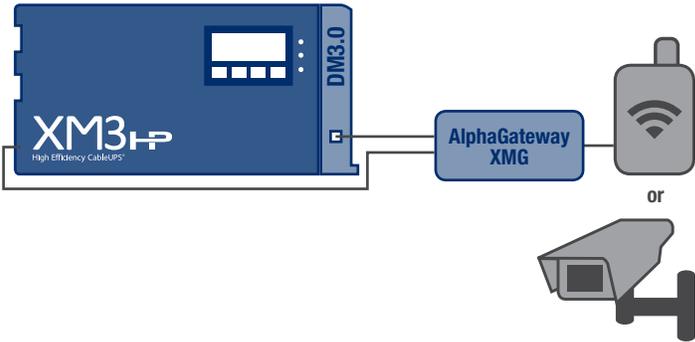
Unlock the advanced features of any DM3.0-equipped Alpha XM3-HP or XM2-HP power supply by adding an AlphaGateway XMG at the power supply location.

By integrating with existing hardware, an AlphaGateway XMG leverages HFC network infrastructure to deliver Wi-Fi access, small cell backhaul or IP camera coverage.

Easily installed with minimal investment of time and money, the AlphaGateway XMG includes:

- XM3-HP/XM2-HP UPS power
- Communication delivery
- Cabinet mounting hardware
- All necessary wiring and connectors

Leverage existing power supply locations to add advanced revenue-generating services with the AlphaGateway XMG.





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