

RESILIENT EDGE NETWORK SOLUTIONS

Hardened for the Elements. Powered for the Edge. No Building Required.

Quiet backup power and optical edge connectivity in one building-free, hardened platform.

PRIMARY MARKET

AMT PowerNode

Hardened Edge Infrastructure with Built-In Resilience.

Up to a week of backup autonomy with propane from proven, maintenance-free SOFC (solid oxide fuel cell) technology.

TRANSPORT EXTENSION

AMT EdgeVault

Secure Power. Connected Edge. No Building Required.

Integrated ROADM technology with hardened optical electronics extend high-capacity transport to the edge, with no conventional hub site.

COMMON HARDENED POWER FOUNDATION

- -48V DC rectification
- Hybrid supercapacitor (rack mount or battery config)
- SOFC fuel-cell generation, up to 1.35 kW continuous per DC blade (subject to load sizing)
- Integrated monitoring, distribution and protection
- AMT pre- and post-sale services

Flexible, building-free installation

Optical broadband cabinets support above- or below-grade installations. Optional flush-grade underground vaults with extractable 19-inch racks can house optical distribution, rectification, energy storage and, where specified, ROADM electronics. The fuel cell and its fuel supply always remain above ground, on a protected DC pathway.



Cabinet



Vault



Open / Closed



No Shelter Required

TARGET APPLICATIONS

- Distributed XGS-PON and future PON expansion
- Rural and municipal broadband
- Remote OLT resiliency retrofits
- Space-constrained rights-of-way
- High-capacity optical aggregation and hub rationalization

WHY CUSTOMERS AND MANUFACTURERS BENEFIT

Customers standardize resilient power and simplify outside-plant deployment without environmentally controlled hub buildings. AMT integrates proven subsystems within a common reference architecture, without requiring a proprietary OLT or optical transport choice.

*Target outcomes, including a minimum of a week of backup autonomy, five-nines availability, extended ambient operation, long-haul optical reach and TCO savings, require configuration-specific engineering and validation.

Plan your resilient edge site with AMT.

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