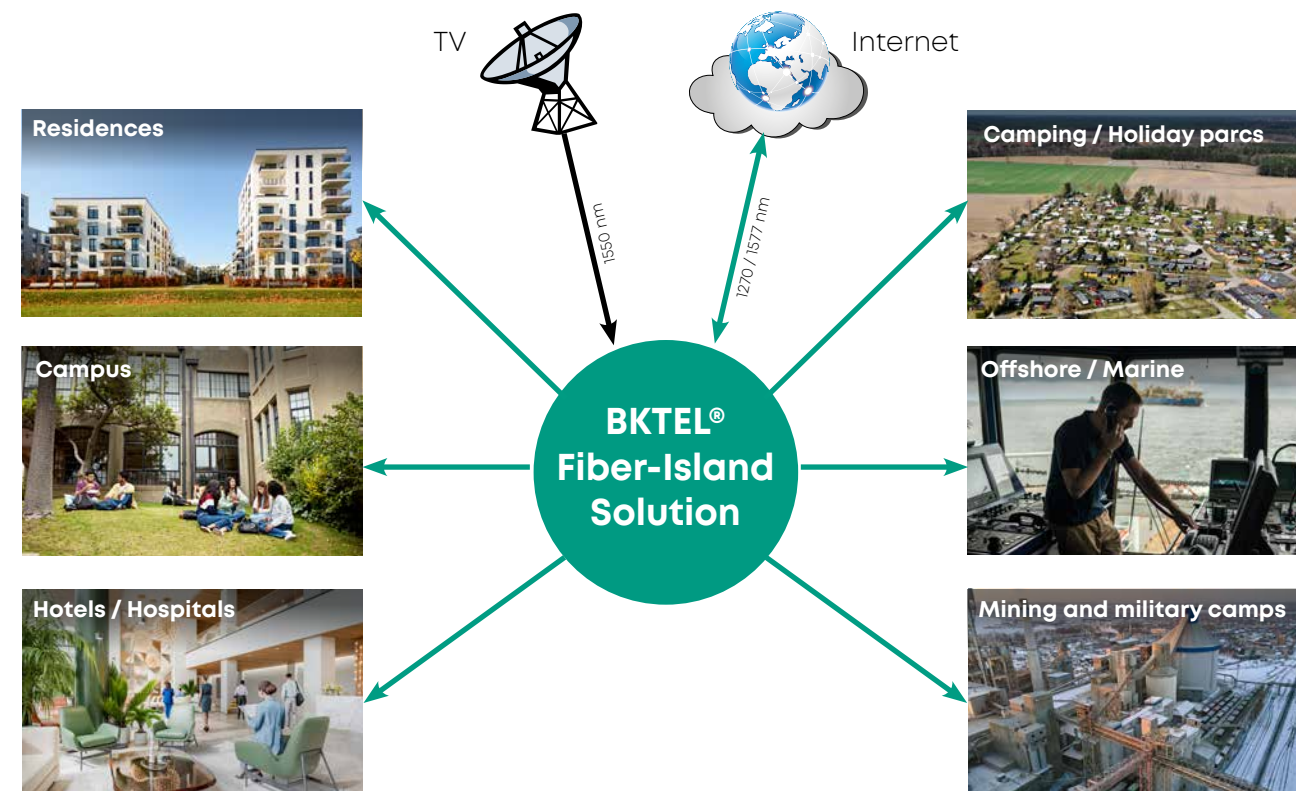# BKTEL® Fiber-Island
The fiber-optic telecommunication solution

HUBER+SUHNER

Fiber-optic telecommunication network for isolated or remote locations

Isolated or remote locations face particular challenges when it comes to the availability of Internet and TV services. A locally owned and managed communication infrastructure can be a viable solution to address these unsatisfied connectivity needs. With the BKTEL® Fiber-Island solution, HUBER+SUHNER has developed a self contained system that enables access to high speed internet with data rates of up to 10 Gbit/s as well as HD quality TV via a fiber-optic network. BKTEL® Fiber-Island connects communities, institutions, campuses, or businesses. Whether browsing, gaming, video conferencing, working from home, running a business or simply watching TV the BKTEL® Fiber-Island solution provides your customers with the key connectivity needed in today's digitalized world. Every room in every building can be supplied with a connection, enabling real time work flows and video conferences run parallel to IP traffic or TV entertainment without compromising signal quality.

TV

Internet

1550 nm

1270 / 1577 nm

Residences

Campus

Hotels / Hospitals

BKTEL® Fiber-Island Solution

Camping / Holiday parcs

Offshore / Marine

Mining and military camps

Key features and benefits:

- High-Speed Connectivity: The network provides speeds up to 10 gigabits per second, enabling seamless browsing, gaming, video conferencing, and other data-intensive activities.
- Improved Reliability: Fiber optic connections are known for their reliability, minimizing disruptions and ensuring consistent performance.
- Enhanced Capacity: The increased bandwidth allows for more devices to connect simultaneously without performance degradation.

Sustainability: Protection of environment and costs through low energy consumption

- Future-Proof Solution: Fiber-optic technology is scalable and can accommodate future increases in data demand.
- Quality TV Experience: A high-quality TV programming package can be made available, enhancing the overall entertainment experience.
- Scalable from 32 to 1064 subscriber lines!
- Adjustments and expansions possible at any time depending on the business area.

Key components

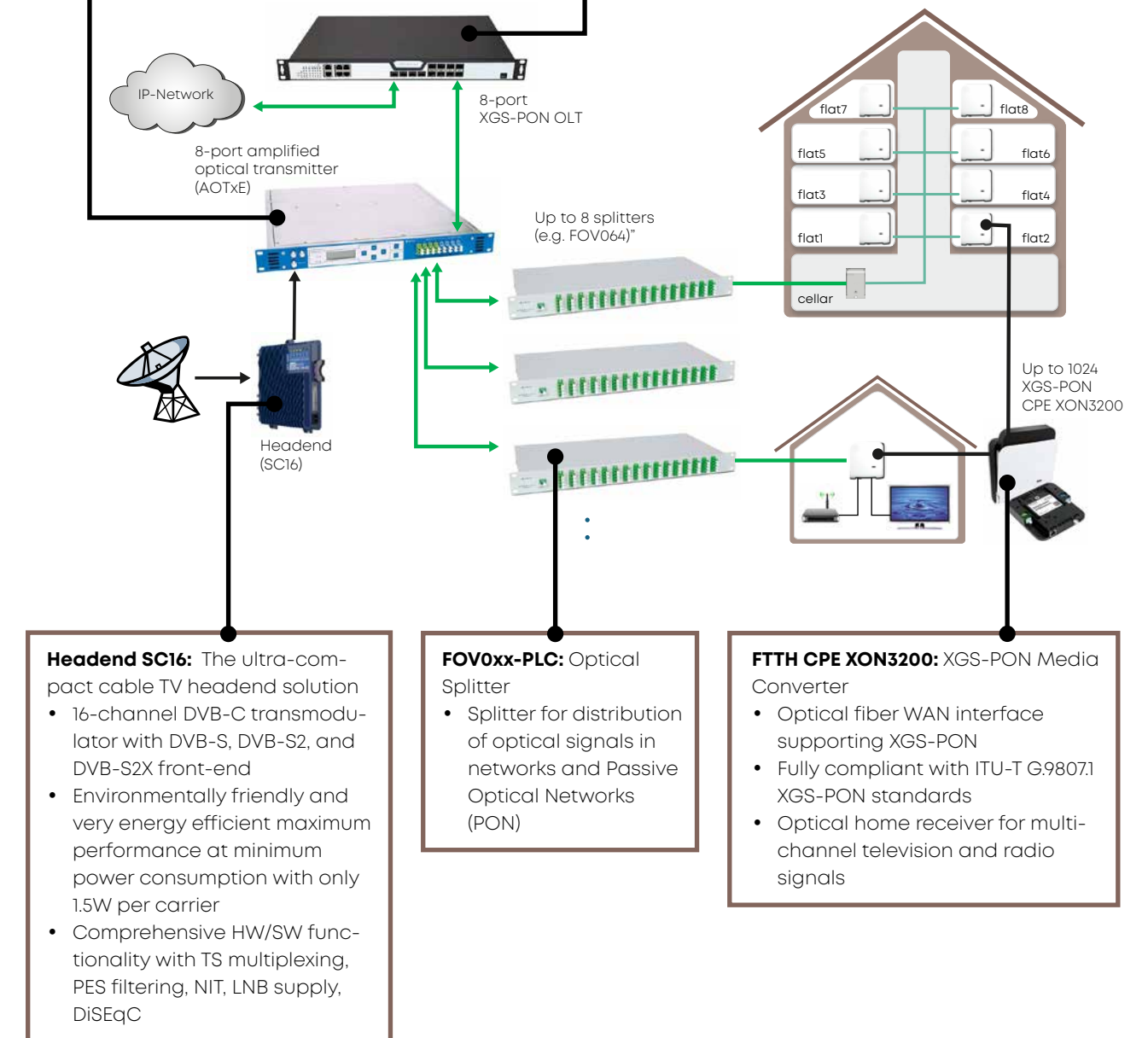**AOTxE:** Directly modulated 1550 nm Amplified Optical CATV Transmitter
- Electrical to optical conversion of multichannel CATV signals
- Optical Amplification with 8 or 16 x 20 dBm optical output power
- High quality transmission in point-to-multipoint links up to 20 km

XGS PON OLT:
- Optical line termination for XGS-PON with speeds up to 10Gbit/s per subscriber
- 8 or 16 ports
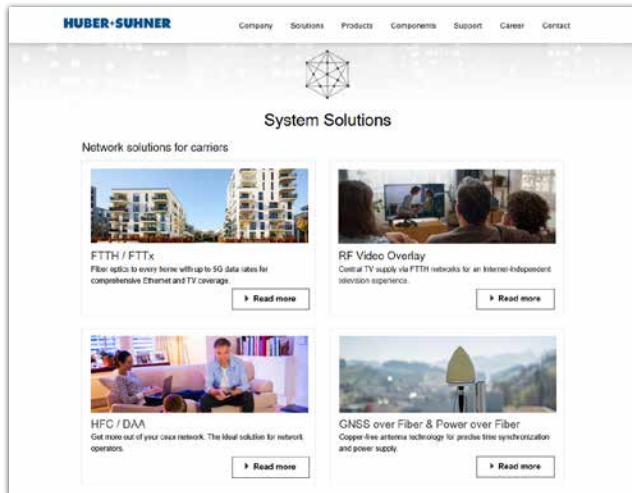- Fully compliant with ITU-T G.9807.1 XGS-PON standards

System capacity
- Max. 16 XGS-PON/video ports + 16x 1:64 Splitter
- Total number subscribers: max. 1024
- Internet speed up to 10Gbit/s
- CATV service with 16 QAM DVB-C carriers for 32 HD or 128 SD TV channels
- 20 km reach

IP-Network

8-port XGS-PON OLT

8-port amplified optical transmitter (AOTxE)

Up to 8 splitters (e.g. FOV064)"

flat7 flat8
flat5 flat6
flat3 flat4
flat1 flat2
cellar

Up to 1024 XGS-PON CPE XON3200

Headend (SC16)

Headend SC16: The ultra-compact cable TV headend solution
- 16-channel DVB-C transmodulator with DVB-S, DVB-S2, and DVB-S2X front-end
- Environmentally friendly and very energy efficient maximum performance at minimum power consumption with only 1.5W per carrier
- Comprehensive HW/SW functionality with TS multiplexing, PES filtering, NIT, LNB supply, DiSEqC

FOV0xx-PLC: Optical Splitter
- Splitter for distribution of optical signals in networks and Passive Optical Networks (PON)

FTTH CPE XON3200: XGS-PON Media Converter
- Optical fiber WAN interface supporting XGS-PON
- Fully compliant with ITU-T G.9807.1 XGS-PON standards
- Optical home receiver for multichannel television and radio signals

Do you have any questions?

Visit us online. On our website you will find a lot of information about FTTH, video overlay and other network solutions:

bktel.com/system-solutions

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