



APEIRO
NETWORKS



Adtran

ADVANCED LINK MONITOR

INSTANT ALERTS for issues like attenuation or fiber breaks, our ALM empowers operators to maintain seamless service and avoid costly disruptions.

EAST TO DEPLOY AND MANAGE, with built-in GIS integration, our ALM solution is your key to robust, efficient fiber network management.



FEATURES



REFLECTORLESS MONITORING

Enable service providers to monitor their entire PON infrastructure for any faults.



FIBER CUT VISUAL

Fiber break mapped with Fiber Director and 3rd party GIS for geographical location.



DWDM AND PON INFRASTRUCTURE MONITORING



MANAGEMENT CAPABILITIES

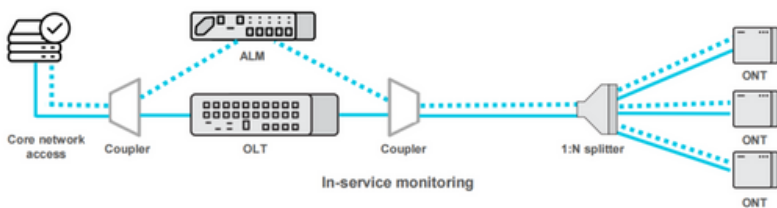
Robust and reliable protocols for remote control (SNMP, NETCONF, REST).



WATER SENSORS

Water sensors are passive. No power supply or battery is required.

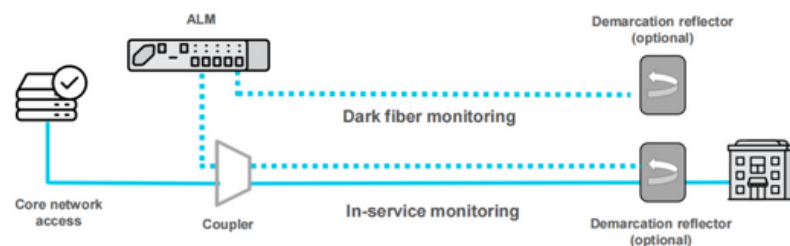
PON access network monitoring



- Not consuming the payload wavelength (Out-of-band)
- In-service monitoring and dark-fiber monitoring
- Enhance accuracy with reflector

- End-to-end GPON infrastructure
- Agnostic fiber monitoring device
- Monitor the last mile in one single view of OTDR trace

Point-to-point network monitoring



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HIGH-LEVEL TECHNICAL SPECIFICATION

Fiber Link Monitoring

- ALM variants: 16 (16ALM) or 64 fibers (64ALM) per ALM device
- High-density options: 96 and 384 port increments up to 800 ports
- In-service monitoring at ITU-T standardized wavelength (1650nm)
- Suitable for dark and lit fiber infrastructure

Demarcation Reflector

- Optional demarcation for remote site applications
- No power or additional space required
- Industry-leading accuracy

Deep PON Assurance

- Monitoring across PON networks from OLT to ONT without a passive reflector
- Detailed fiber asset health insights

Management Capabilities

- Ensemble management suite for network visibility
- Embedded web GUI
- Integrated with GIS solutions
- Remote control protocols: SNMP, NETCONF, REST

Operational Advantages

- Passive cooling, no regular maintenance
- Self-calibration without decommissioning
- RF tone generation for fiber identification

Optical Performance

- Up to 320km distance range for various applications
- High dynamic range across temperature variations

Operational Requirements

- Power consumption: <13W (AC/DC)
- Fanless operation
- Wide temperature range: -5°C to 55°C
- High-density options in compact chassis

"A New Era of Fiber Monitoring

What sets our ALM apart is its compact size and affordability—qualities that were previously out of reach. It delivers effective, real-time fiber assurance for access and metro networks, making it accessible for all operators."

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