

Article Overview

The Safe City Enterprise-Level Optical Router EML is designed to provide high-bandwidth, secure, and scalable optical networking for urban surveillance and enterprise applications.

Overview

The Safe City Enterprise-Level Optical Router EML is part of Huawei's Safe City solution, which integrates high-definition video surveillance, low-latency optical transport, and secure network management for large-scale urban environments . It supports enterprise-level optical routing, enabling the convergence of IP and optical layers to deliver reliable, high-capacity connectivity for cameras, sensors, and other smart city devices.

Key Features

- o High-Bandwidth Optical Transport: Supports xPON and direct optical connections, allowing efficient use of fiber and reducing the need for extensive cabling in urban areas .
- o Video Optimization: Handles HD 1080p video at 60 fps with low bandwidth consumption and anti-loss mechanisms, ensuring smooth transmission from multiple surveillance cameras .
- o Security and Encryption: Provides strict isolation, transmission encryption, and access authentication to protect sensitive video and data streams from intrusion or leaks .
- o Scalability: Designed for enterprise and city-wide deployments, the router can integrate with multiple sites, including hospitals, banks, schools, and government offices, supporting cross-regional video sharing and cloud storage .
- o Flexible Deployment: Compatible with wireless backhaul, LTE, and Wi-Fi for areas where cabling is difficult, and supports optical splitters and ONUs for efficient fiber utilization .

Enterprise and Smart City Applications

- o Urban Surveillance: Connects hundreds of HD cameras across districts, enabling centralized monitoring and real-time video analytics .
- o Government Networks: Provides a secure backbone for municipal services, including hospitals, schools, and public safety systems .
- o Integration with Cloud and AI: Supports cloud storage and AI-driven video analysis for rapid retrieval, content marking, and improved operational efficiency .

Comparison with Routed Optical Networks



Safe City Enterprise-Level Optical Router EML

Similar to Cisco's Routed Optical Networking, the Safe City Optical Router EML can deliver coherent optical wavelengths directly from router ports, reducing the need for separate transponders and optical transport equipment, which lowers CapEx and OpEx while extending network reach . It is optimized for high-density metro and long-haul applications, supporting secure, high-speed data transport for enterprise and city-scale networks.

Benefits

- o Reduces fiber and cabling costs in dense urban environments.
- o Ensures secure, encrypted transmission of sensitive video and data.
- o Supports multi-format video and cross-regional sharing.
- o Enhances operational efficiency with centralized monitoring and AI-assisted analytics.
- o Scales to meet growing bandwidth demands, including 5G and IoT integration . The Safe City Enterprise-Level Optical Router EML is therefore a critical component for building resilient, high-performance, and secure smart city networks, combining optical routing, video optimization, and enterprise-grade security for large-scale deployments.

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