



ISKRATEL

powered by 5x9 Networks

Iskratel Lumia Edge OLT

Energy-saving, multi-gigabit PON OLT with integrated Broadband Network Gateway (BNG) and Active Monitoring System (AMS)

Network operators are being steered towards a more **distributed architecture** of their fixed broadband networks. The drivers for this shift include a constant growth of internet data rates, the switch from multicast-based IPTV to unicast, and getting prepared for the upcoming **edge computing**.

As a result, the operators are looking for solutions that are adaptable, extensible, and future-proof. **Iskratel Lumia Edge OLT** is the best option for operators aiming to build a robust and reliable network.

Numerous reasons prove why.

Flexible and Extendable OLT

One of the key advantages of **Iskratel Lumia Edge OLT** is the flexibility of its hardware. Our OLT platform uses a powerful, programmable network processor to ensure that it can handle any workload thrown at it. Unlike OLTs of other vendors, our Iskratel Lumia Edge OLT does not stop at Layer 2. Instead, with the support of **5x9 Networks**, we go to higher network layers, and offer two main feature extensions: A **Broadband Network Gateway (BNG)** and an **Active Monitoring System (AMS)**.

Broadband Network Gateway

The Broadband Network Gateway (BNG) integrated into Iskratel Lumia Edge OLT allows a distributed termination of customer PPPoE/IPoE connections. The implementation of BNG in Iskratel Lumia Edge OLT supports an extensive **IP/MPLS** feature set, rich **Quality of Service (QoS)**, **Carrier-Grade NAT (CGN)**, and many more – all with wire-rate performance.

Active Monitoring System

Full visibility of the performance of network, services and applications is provided by the Active Monitoring System (AMS). The AMS can provide **performance insights**, instantly detect and report degradations, pinpoint the causes of problems, and significantly **reduce the time to repair**.



Next-generation
broadband access



Complete portfolio of
solutions and products



Exceptional functionality
at an unbeatable TCO



Software-Based Extensions

The best part is that both Broadband Network Gateway and Active Monitoring System are available via a simple [software license](#), requiring [no hardware upgrade](#) of the OLT.

Protection of Investments

The operators that have already invested in the BNG infrastructure can start by deploying Iskratel Lumia OLTs as pure Layer-2 devices, and activate the two functionalities when the time is right, at their own pace. When the number of customers increases or the data rates grow, they can enable BNG functionality on a part of existing Iskratel Lumia OLTs via additional software licenses. This enables them to [continue using the existing BNG infrastructure](#). Furthermore, if the existing BNGs reach end of support (EoS) or end of life (EoL), they can enable BNG on all Iskratel Lumia OLTs, making the [migration to a fully distributed BNG](#) architecture hassle-free. With Iskratel Lumia Edge OLT, the life of existing BNG base is extended, and a genuine pay-as-you-grow model is ensured.

Production Life Simplified

The Iskratel Lumia Edge OLTs with integrated Broadband Network Gateway and Active Monitoring System are designed with massive distribution in mind. We provide a [comprehensive solution for centralised management](#) of all OLT functionalities, and our intelligent management thoroughly [simplifies provisioning and maintenance](#). The operators no longer have to deal with details such as BNG-instance IP addressing, CGN IP pools, collection of test and monitoring result – our management will take care of it. Moreover, the configuration and management complexity will not increase a bit as more Iskratel Lumia Edge OLTs are added to the network.

Future-Proof Platform

Iskratel Lumia Edge OLTs are designed to be future-proof, accommodating various expansion needs. Whether the motivation is extension of BNG capacity, lack of IPv4 address space, replacement of BNG equipment at EoL/EoS, preparing the network for the upcoming edge computing, or focus on enhancing customers' Quality of Experience (QoE), our platform is a [perfect fit for all scenarios](#).

Conclusion

Iskratel Lumia Edge OLT is the [perfect choice](#) for anyone who needs a flexible, extensible, and future-proof solution for their network infrastructure. The top-of-the-line programmable OLT with integrated Broadband Network Gateway and Active Monitoring System protects the existing investments and makes production life simpler while keeping up with future demands. Contact us today to learn more.

Get to Know Kontron and 5x9 Networks Better

Kontron's broadband solutions address all sides of the equation: [Iskratel Lumia OLTs](#) equip forward-looking operators with industry-leading density and versatility, while [Iskratel Innbox CPE](#) guarantees supreme user experience over multi-gigabit connectivity. Contact us at marketing@kontron.si.

5x9 Networks have over a century of combined telco experience and we create products that we wish we could have used ourselves. If you require a virtual [Broadband Network Gateway](#), a virtual [Carrier-Grade NAT](#), or an [Active Monitoring System](#), feel free to contact us at info@5x9networks.com.



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