ISKRATEL

Iskratel Lumia OLT

Superior multi-gigabit optical line terminal

Iskratel Lumia is a family of next-generation OLTs, applicable for Combo XGS-PON, GPON, 10GE P2P and the upcoming 50G/100G-PON, or a combination thereof.

Iskratel Lumia fits all deployment densities in urban or rural areas, while its modular design and flexibility of interfaces address every possible use in broadband access.

Super-scalable Iskratel Lumia T14 is a high-density OLT able to host existing XGS-PON, GPON, 10GE P2P and future 25/50G-PON technologies. Fully equipped, it can connect more than 50,000 users.

Iskratel Lumia T6 provides data rates up to 800 Gbps per subscriber blade and a staggering 1.4 Tbps uplink capacity. It connects more than 20,000 users and allows a painless upgrade to 50G/100G-PON.

Compact OLTs Iskratel Lumia C16 and Iskratel Lumia C8 are optimised for lower-density Combo XGS-PON, GPON and 10GE P2P deployments, and serve up to 4,096 users.

The industry-leading temperature range from $-40\,°C$ to $+65\,°C$ makes Iskratel Lumia deployable at central office and in less controlled street cabinets.

The record-low energy consumption of Iskratel Lumia helps operators cut energy bills, implement their sustainability strategy and reduce the environmental impact.

The dual nature of Iskratel Lumia supports conventional and virtualised operation, allowing operators to skip hardware-upgrade cycles and achieve cost savings from 30% to 70%.

Iskratel Lumia yields the lowest five-year TCO, simplifies the management and guarantees user satisfaction.

Iskratel Lumia T14

Iskratel Lumia T6

Iskratel Lumia C16

Next-generation fibre access
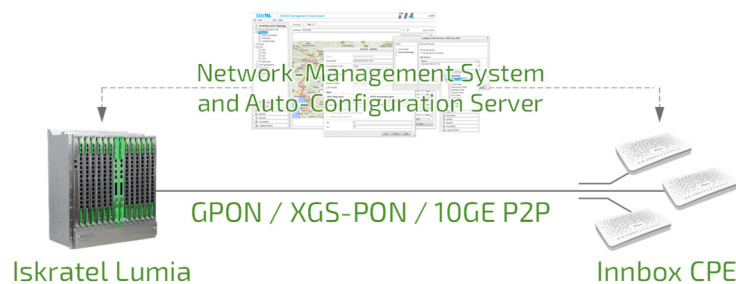
Complete portfolio of solutions and products

Prolonged lifecycle and lowest five-year TCO

ISKRATEL
Lumia OLTs

Port capacities	Iskratel Lumia T14	Iskratel Lumia T6	Iskratel Lumia C16	Iskratel Lumia C8
Shelf type	Multi-slot	Multi-slot	Compact 1U	Compact 1U
Number of slots	14	6	–	–
No. of for subscriber blades	12 / 13	3 / 4 / 5	–	–
No. of central blades	2 / 1	2 / 2 / 1	–	–
No. of uplink-extension blades	–	1 / 0 / 0	–	–
No. of Combo (XGS-PON, GPON and 10GE P2P) access ports	192 / 208	48 / 64 / 80	16	8
No. of XGS-PON access ports	as Combo	as Combo	–	–
No. of GPON access ports	as Combo	as Combo	–	–
No. of 10GE P2P access ports	as Combo	as Combo	–	–
No. of GE P2P access ports	–	–	–	–
No. of XGS-PON users (at 1:256)	max. 53,248	max. 20,480	4,096	2,048
No. of GPON users (at 1:128)	max. 26,624	max. 10,240	2,048	1,024
No. of 100GE uplink ports	4 / 2	12 / 4 / 2	–	–
No. of 25GE uplink ports	8 / 4	8 / 8 / 4	4	2
No. of 10GE uplink ports	–	–	–	2
Dimensions				
Height	572 mm (14U)	222 mm (5U)	45 mm (1U)	45 mm (1U)
Width	482.6 mm	482.6 mm	447 mm	447 mm
Depth	330 mm	330 mm	235 mm	235 mm
Compliance	ETSI 300 and 19"	ETSI 300 and 19"	ETSI 300 and 19"	ETSI 300 and 19"
Local management interface				
Console	RS232, µUSB			
Gigabit Ethernet	1000 Base-T, RJ-45 (management port for whole chassis)			
Intelligent platform-management interface (IPMI)				
Blade identification	Position in chassis, serial number, service contact			
Shelf identification	Geographical, topological position, role/application			
Blade status	Power consumption, temperature, voltages			
Blade management	Active/standby/fail status, activation, remote reset, shutdown			
Fan management	Status, control over rotation speed, automatic adaptation			
Environmental				
Safety	EN 62368-1:2014 + A11:2017			
EMC	EN 55032:2015 + A11:2020, EN 55035:2017 + A11:2020, EN 61000-3-2:2019 and EN 61000-3-3:2013 + A1:2019			
Storage conditions	ETS 300 019-1-1, class 1.2, temperature –50..+70 °C, RH 10..100%			
Transport conditions	ETS 300 019-1-2, class 2.3			
Operating conditions	ETS 300 019-1-3, class 3.1E, temperature –40..+65 °C, RH 5..90% non-condensing.			
Power supply				
Supply voltage	From –42 V DC to –60 V DC and/or from 100 V AC to 240 V AC			

For more information on individual models, please refer to their datasheets.   Data for Iskratel Lumia C8 are preliminary.

Network-Management-System and Auto-Configuration Server

GPON / XGS-PON / 10GE P2P

Iskratel Lumia   Innbox CPE

ISO 9001   Q-009
ISO 14001   E-498
ISO/IEC 27001 I-046

SILVER | Top 15%
ecovadis
Sustainability Rating
FEB 2025