



**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 25G/50G/100GPON, 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 25/50GPON 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 up-link** capacity. It connects more than

20,000 users and allows a painless upgrade to 25/50/100GPON.

Compact OLTs **Iskratel Lumia C16**, **SI3000 Lumia XG8** and **SI3000 Lumia G16** 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



SI3000 Lumia G16



Iskratel Lumia C16



SI3000 Lumia XG8



Next-generation fibre access



Complete portfolio of solutions and products

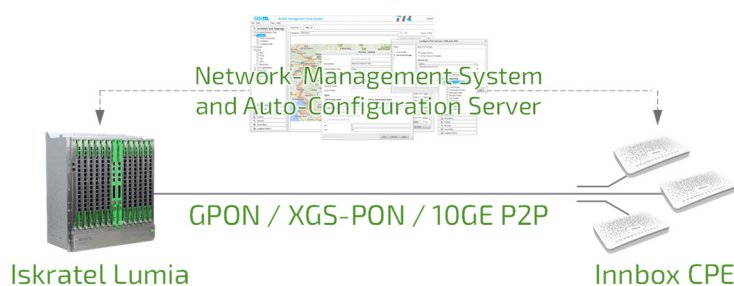


Prolonged lifecycle and lowest five-year TCO



Port capacities	Iskratel Lumia T14	Iskratel Lumia T6	Iskratel Lumia C16	SI3000 Lumia XG8	SI3000 Lumia G16
Shelf type	Multi-slot	Multi-slot	Compact 1U	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	–	–
No. of XGS-PON access ports	as Combo	as Combo	–	8	–
No. of GPON access ports	as Combo	as Combo	–	–	16
No. of 10GE P2P access ports	as Combo	as Combo	–	–	–
No. of GE P2P access ports	–	–	–	–	6
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	–	2,048
No. of 100GE uplink ports	4 / 2	12 / 4 / 2	–	–	–
No. of 25GE uplink ports	8 / 4	8 / 8 / 4	4	–	–
No. of 10GE uplink ports	–	–	–	4	4
<b>Dimensions</b>					
Height	572 mm (14U)	222 mm (5U)	45 mm (1U)	45 mm (1U)	45 mm (1U)
Width	482.6 mm	482.6 mm	447 mm	447 mm	447 mm
Depth	330 mm	330 mm	235 mm	235 mm	235 mm
Compliance	ETSI 300	ETSI 300	ETSI and 19"	ETSI and 19"	ETSI and 19"
<b>Local management interface</b>					
Console	RS232, µUSB				
Gigabit Ethernet	1000 Base-T, RJ-45 (management port for whole chassis)				
<b>Intelligent platform-management interface (IPMI)</b>					
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				
<b>Environmental</b>					
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.				
<b>Power supply</b>					
Supply voltage	From –42 V DC to –60 V DC				

For more information on individual models, please refer to their datasheets.



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