



Iskratel Lumia OLT

Superior FTTH Optical Line Terminal

Iskratel Lumia is a family of next-generation OLTs for Combo XGS-PON, GPON, 10GE P2P and the upcoming 50G/100G-PON. It is a product pillar of Iskratel, Kontron's specialised telco brand that unites eight decades of expertise with Kontron's reach and strength.

All you need for FTTH

Iskratel Lumia OLTs fit **all deployment densities** in urban and rural areas, and address every possible use in the fibre access with modular design and flexibility.

With its industry-leading temperature range **from -40 °C to +65 °C**, Iskratel Lumia is deployable at the central office, and in less controlled street cabinets.

The **record-low energy consumption** of Iskratel Lumia helps operators **cut energy bills**, implement the 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 T14



Iskratel Lumia T6



Iskratel Lumia C16

Best-in-class fibre access

Super-scalable **Iskratel Lumia T14** OLT is able to host XGS-PON, GPON, 10GE P2P and future 50G-PON technology. Fully equipped, it serves **more than 50,000 users**.

Mid-sized **Iskratel Lumia T6** OLT connects more than 20,000 users. Its **400 Gbps** per subscriber blade and **600 Gbps uplink** capacity allow an easy upgrade to 50G- and 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.



<https://kontron-slovenia.com/lumia>



Next-generation
fibre access



Complete portfolio of
solutions and products



Prolonged lifecycle and
lowest five-year TCO

Iskratel Lumia OLTs: Quick overview

Port capacities	Lumia T14	Lumia T6	Lumia C16	Lumia C8
Chassis capacity	14 slots	6 slots	Compact 1U	Compact 1U
No. of for subscriber blades	12 / 13	4 / 5	–	–
No. of central blades	2 / 1	2 / 1	–	–
No. of Combo (XGS-PON, GPON and 10GE P2P) access ports	192 / 208	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	4 / 2	–	–
No. of 25GE uplink ports	8 / 4	8 / 4	4	2
No. of 10GE uplink ports	–	–	–	2
Uplink capacity [Gbps]	600/300	600/300	100	50
Capacity per subs. blade [Gbps]	400/200	800/400	–	–
Dimensions				
Height	578 mm (13U)	222 mm (5U)	45 mm (1U)	45 mm (1U)
Width	482.6 mm	482.6 mm	447 mm	447 mm
Depth	290 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			
Chassis 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.

