

SUPERIOR FIBRE AND MULTI-SERVICE ACCESS

Iskratel SI3000 Lumia

ISKRATEL
S&T Group



Next-generation
broadband access



Complete portfolio of
solutions and products



Prolonged lifecycle and
lowest five-year TCO



ISKRATEL FIBRE-BASED BROADBAND

Iskratel provides fibre-to-the-home (FTTH) broadband solutions, ideal for all types of end users and for all types of services, from ultra-fast internet or premium HDTV to business connectivity or bandwidth-hungry apps from the cloud. The solutions support physical and virtual unbundling, bit-stream and open broadband access, which makes them applicable for all business models and **multi-provider environments**.

ISKRATEL SI3000 LUMIA: CUTTING-EDGE BROADBAND

Iskratel **SI3000 Lumia** is a broadband-access product that connects users over fibre or copper from a single platform. It is applicable in XGS-PON, GPON and P2P FTTH solutions.

Exquisitely scalable, SI3000 Lumia fits **all deployment densities**, from high-density urban to low-density rural areas, while its modular design with multiple chassis options, and a variety of subscriber-connectivity interfaces address every possible use case in the broadband-access network.

Iskratel SI3000 Lumia is a pioneer of **software-defined access**, introduced to the market and field-proven years before competition. Empowered with a unique awareness of services and apps, SI3000 Lumia lets the operators justify their investment regardless of specific business needs or use cases.

ANY SERVICE. ANY DENSITY. ANY ENVIRONMENT

SI3000 Lumia offers a multitude of access technologies by use of various subscriber blades for XGS-PON, GPON

and P2P fibre, and universal DSL. Its modular design allows combining various access options in a single chassis of different sizes, from a 1U pizza box to a 20-slot shelf.

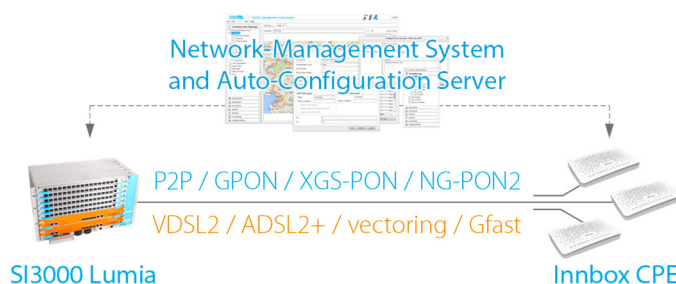
Industry-leading temperature range **from -40 °C to +65 °C** makes SI3000 Lumia deployable not only at central office, but also in less controlled conditions such as street cabinets.

SI3000 Lumia OLT serves all deployment densities. Fully equipped with XGS-PON or GPON blades, it provides fibre-optical access to up to 36,864 users from a single chassis.

Compact 1U OLTs **SI3000 Lumia G16**, **SI3000 Lumia XG8** and **SI3000 Lumia C16** are optimised for smaller deployments, addressing residential, business and backhaul uses.

HOW DOES IT WORK?

Iskratel's solutions deliver the **lowest five-year TCO**, high user satisfaction and easy network management. The software-upgradable hardware allows operators to slash capex by skipping one or two hardware-upgrade cycles, with reported cost savings **between 30% and 70%**.



Port capacities	SI3000 Lumia, multi-blade chassis				SI3000 Lumia, compact 1U			
	20-slot	18-slot	10-slot	6-slot	G16	XG8	C16	
Max. GPON access ports (1:128)	288	256	128	64	16 or 8	–	–	
Max. XGS-PON access ports (1:512)	72	64	32	16	–	8	–	
Max. Combo PON access ports (1:128)	–	–	–	–	–	–	16	
Max. GE P2P access ports	456	456	216	120	6	–	–	
Max. VDSL2/ADSL2+ access ports	1216	1216	576	320	–	–	–	
Max. 100GE uplink ports	–	–	–	–	–	–	2	
Max. 10GE uplink ports	8	8	8	4	4	4	4	
Max. GE uplink ports	16	16	16	8	–	–	–	
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							
Dimensions (H × W × D)				Compliance				
SI3000 Lumia, 20-slot chassis				622 mm (14U) × 500 mm × 240 mm				ETSI
SI3000 Lumia, 18-slot chassis				622 mm (14U) × 450 mm × 270 mm				ETSI and 19"
SI3000 Lumia, 10-slot chassis				267 mm (6U) × 450 mm × 235 mm				ETSI and 19"
SI3000 Lumia, 6-slot chassis				178 mm (4U) × 450 mm × 233 mm				ETSI and 19"
SI3000 Lumia G16				45 mm (1U) × 447 mm × 235 mm				ETSI and 19"
SI3000 Lumia XG8				45 mm (1U) × 447 mm × 235 mm				ETSI and 19"
Environmental								
Safety				EN 62368-1:2014; latest version				
EMC				EN 300 386; latest version				
Storage and transport conditions				Temperature –50..+70 °C; RH 10..100%				
Operating conditions				Temperature –40..+55/65 °C; RH 5..90% non-condensing				
Power supply								
Supply voltage				From –42 V DC to –60 V DC				



SI3000 Lumia
in 20-, 10-, and 6-slot chassis



SI3000 Lumia G16 GPON OLT



SI3000 Lumia XG8 XGS-PON OLT



SI3000 Lumia C16 Combo PON OLT



Deployment in
street cabinets

ISKRATEL
5&T Group

Iskratel, d. o. o., Kranj
Ljubljanska cesta 24 a
SI 4000 Kranj, Slovenia

P +386 4 207 20 00
F +386 4 207 27 12

info@iskratel.si
www.iskratel.com



Telco



Transport



Energy



Public Safety