SUPERIOR FIBRE AND MULTI-SERVICE ACCESS

Iskratel SI3000 Lumia

ISKRATEL

Next-generation broadband access

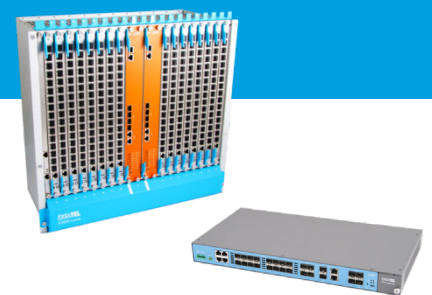**Complete portfolio of solutions and products**

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, bitstream 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 GPON and point-to-point 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 with the use of various subscriber blades for P2P fibre, GPON fibre, and universal DSL. Its modular design allows combining various access options in a single chassis of different sizes, from single-slot, 1U pizza box to 20-slot shelf.
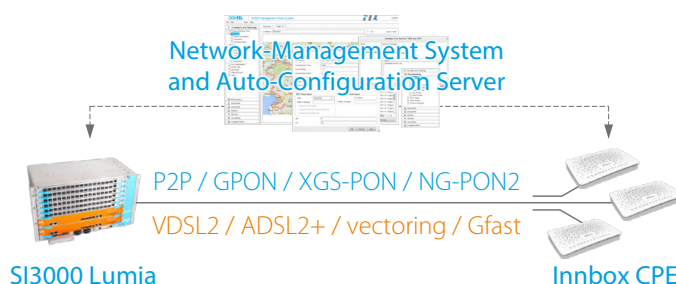
Industry-leading temperature range from −40 °C to +65 °C makes SI3000 Lumia deployable not only at central office, but also in less controlled conditions such as street cabinets.

SI3000 Lumia OLT serves all deployment densities. Equipped with the top-of-the-line 16-port GPON blades, it provides up to 288 GPON ports, serving 36,864 users.

SI3000 Lumia G16 is a compact 1U GPON OLT optimised for smaller fibre-access deployments. Combining 16 GPON ports (serving 2,048 users) and six P2P GE ports in the same box, it delivers performance optimised for mixed residential and business users.

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%.

Network-Management System and Auto-Configuration Server

P2P / GPON / XGS-PON / NG-PON2

VDSL2 / ADSL2+ / vectoring / Gfast

SI3000 Lumia

Innbox CPE

Port capacities	SI3000 Lumia				SI3000 Lumia G16
	20-slot	18-slot	10-slot	6-slot	
Max. GPON access ports (1:128)	288 / 256	256 / 224	128 / 96	64	16 or 8
Max. XGS-PON access ports (1:512)	144 / 128	128 / 112	64 / 48	32	–
Max. GE P2P access ports	456 / 432	456 / 432	216 / 192	120	6
Max. VDSL2/ADSL2+ access ports	1216 / 1152	1216 / 1152	576 / 512	320	–
Max. VDSL2 vectorised access ports	2× 256	2× 256	256	256	–
Max. 10GE uplink ports	4 / 8	4 / 8	4 / 8	4	4
Max. GE uplink ports	8 / 16	8 / 16	8 / 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"

Environmental	
Safety	IEC 60950-1; latest version
EMC	EN 300 386; latest version
Storage and transport conditions	Temperature –50..+70 °C; RH 10..100%
Operating conditions	Temperature –40..+55 °C; RH 5..90% non-condensing

Power supply	
Supply voltage	From –42 V DC to –72 V DC

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

SI3000 Lumia G16, compact 1U OLT

Deployment in street cabinets

ISKRATEL

Telco   Transport   Energy   Public Safety