

SI3000 LUMIA OLT-C

High-performance GPON/XGS-PON OLT

ISKRATEL



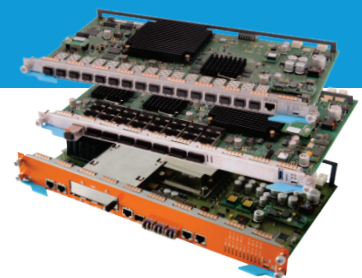
Next-generation
broadband access



Conventional or
virtualised operation



Prolonged lifecycle and
lowest five-year TCO



Iskratel's **SI3000 Lumia OLT-C** is a shelf-based, multi-blade GPON/XGS-PON OLT. A variety of access blades equips it with **XGS-PON and GPON** optical-fibre access. Its dual nature supports **conventional and virtualised operation** on the same hardware, allowing operators to avoid an entire investment cycle when transforming their network towards software-defined, next-generation access.

Highly scalable, SI3000 Lumia OLT-C fits **all deployment densities**, from high-density urban to low-density rural areas, while its flexibility and a variety of shelves address all use cases in the broadband access.

Industry-leading temperature range **from -40 °C to +65 °C** makes SI3000 Lumia OLT-C ideal for deployment not only at central office, but also at less controlled remote locations such as street cabinets.

SI3000 Lumia OLT-C provides **market-leading GPON density**: equipped

with the top-of-the-line GPON blades, up to 288 ports serve 36,864 users from a single shelf.

The SI3000 Lumia OLT-C is available in **20-slot, 18-slot, 10-slot, and 6-slot** shelves. A shelf hosts one or two central Ethernet switching blades and one or more access blades, each connected with multi-10GE backplane links.

SI3000 Lumia OLT-C **excels in compactness**: ETSI-compliant depth saves rack space (back-to-back mounting) or fits into street cabinets.

When duplicated, the central blades can employ a **dual-unit stacking (DUS)** mode for high-availability and redundancy. The DUS mode provides stacking into a single, non-blocking switching entity, offering extremely high bandwidths (40 Gbps per slot) and flexibility in terms of network topologies such as subtending or rings. In DUS mode, the two central blades are seen as one device with a single management IP address.

KEY FEATURES AND BENEFITS

- Carrier-grade solution with high reliability and availability
- Seamless transition to virtualised next-gen fibre access
- Industry-leading temperature range from -40 °C to +65 °C
- Flexible shelf configurations for different capacities
- Dual-star Ethernet backplane topology
- Dual-unit stacking for central blades with hot-swap
- Standards-compliant OMCI management



Shelf type	MEC 20	MEC 18	MEC 10	MEC 6
Chassis description	20 slots, 14U	18 slots, 14U	10 slots, 6U	6 slots, 4U
Dimensions H x W x D, millimetres ⁽¹⁾	622 x 500 x 240	622 x 450 x 270	267 x 450 x 235	178 x 450 x 233
Rack compliance	ETSI 300	19"	ETSI 300 and 19"	ETSI 300 and 19"
Port capacities				
No. of slots for central blades	1 / 2	1 / 2	1 / 2	1
No. of slots for 10G service blades	18 / 16	16 / 14	8 / 6	4
Max. GPON OLT ports	288 / 256	256 / 224	128 / 96	64
Max. XGS-PON OLT ports	72 / 64	64 / 56	32 / 24	16
Max. GPON OLT users (1:128 split)	36,864 / 32,768	32,768 / 28,672	16,384 / 12,288	8,192
Max. XGS-PON OLT users (1:512 split)	36,864 / 32,768	32,768 / 28,672	16,384 / 12,288	8,192
Max. 10GE uplink ports	4 / 8	4 / 8	4 / 8	4
Max. GE uplink ports	2 / 4	2 / 4	2 / 4	2
PON interfaces				
GPON interface	G.984.x GPON, G.988 OMCI, TR-247 OLT interop, TR-101, TR-156, AES, FEC			
GPON split ratio	1:128			
XGS-PON interface	G.9807 XGS-PON, G.988 OMCI, TR-101, TR-156, AES, FEC			
XGS-PON split ratio	1:512			
Local management interface (per blade)				
Console	RS232 (over µUSB connector, adapter needed)			
Gigabit Ethernet	1000 Base-T, RJ-45 (management port for whole chassis)			
Chassis connectivity and management				
Central switching blades	Two central switching blades for shelves MEC 20, MEC 18 and MEC 10. One central switching blade for MEC 6.			
IPMI	Service blade identification, Identification of chassis, Blade status information, Blade management, Fan management			
Backplane interface	Two 10GE/1GE interfaces per peripheral blade with a single central blade Four 10GE/1GE interfaces per peripheral blade with duplicated central blade			
Environmental				
Safety	EN 60950-1:2006 + A1:2010 + A2:2013 + A11:2009 + A12:2011			
EMC	ETSI EN 300 386 V1.6.1 (EN55022 Class A)			
Storage conditions	ETS 300 019-1-1, class 1.2 Temperature -50..+70 °C, relative humidity 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, relative humidity 5..90% non-condensing			
Power supply				
Supply voltage	From -42 V DC to -72 V DC, dual rail redundancy			

⁽¹⁾ Depth given without cables and protrusions



SI3000 Lumia OLT-C in MEC 20



SI3000 Lumia OLT-C in MEC 10



SI3000 Lumia OLT-C in MEC 6

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