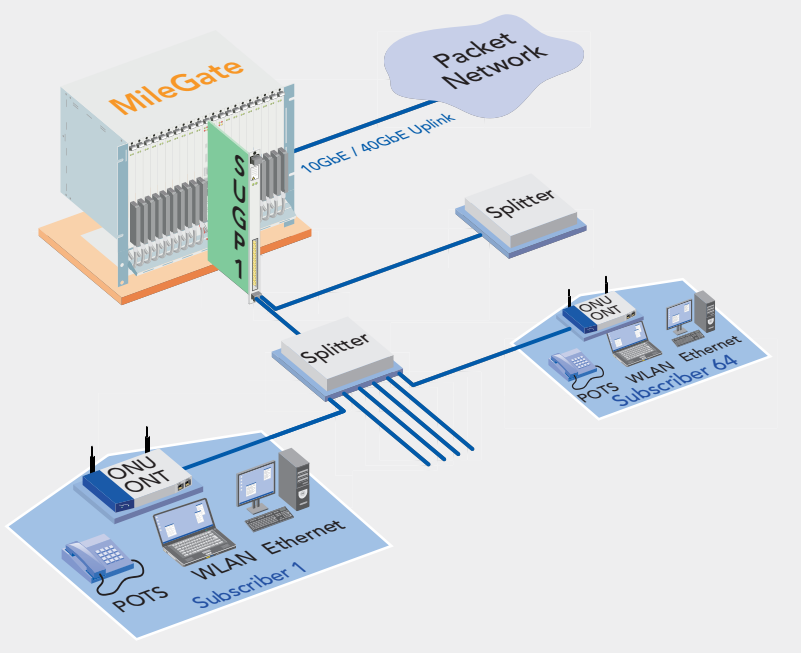


MileGate SUGP1

GPON OLT card for the multi-service access platform MileGate



FTTH connections with MileGate SUGP1

- 8 GPON ports according to ITU-T G.984
- Maximum splitting factor 1:64
- Up to 2.5 Gbps in downstream direction and up to 1.25 Gbps in upstream direction per port
- 1 Gbps or 10 Gbps backplane access
- Designed for indoor and outdoor deployment
- All functions out of one network management system
- For MileGate 2510 and 2310
- Within the MileGate Fiber Series product line, optimized for all-optical access, coverless operation in the MileGate 2510/2310 subracks is supported

The MileGate GPON OLT line card SUGP1 provides high-bandwidth subscriber connection in the multi-service access platform MileGate via passive optical networks (PON).

MileGate SUGP1 is ideal for high density areas that are to be connected to the Internet in FTTH and FTTB architectures via a PON network.

■ MileGate as GPON OLT

With the SUGP1 the subracks MileGate 2510 and MileGate 2310 acts as GPON OLT nodes.

With its outdoor concept, MileGate can provide GPON connections even under harsh environmental conditions.

■ High-speed broadband

SUGP1 provides bandwidth of up to 1.25 Gbps in upstream direction and up to 2.5 Gbps in downstream direction per GPON port.

■ Interoperability

SUGP1 supports standard GPON interfaces and is compatible to most GPON ONUs/ONTs.

■ Multi-service capability

SUGP1 can be operated with other line cards and gateways in the same MileGate subrack.

■ Fail-safe concept

MileGate offers a fail-safe concept in carrier class quality. All units have local power supplies. The core unit can also be installed redundantly in order to achieve highest availability.

■ Management

The MileGate management and the variety of services are administered centrally by a variety of network management interfaces (CLI/SNMP) or MCST/UNEM. Operators save costs and accelerate the provisioning process with only one element manager for all services.

Technical Data

GPON Unit	
Number of GPON ports	8
GPON port connector type	SFP
Supported GPON standard	ITU-T G.984.1
GPON Ports	
Distance between OLT and ONU/ONT	Up to 20 km physical reach, up to 60 km logical reach
Bandwidth per GPON port	Upstreams up to 1.25 Gbps Downstreams up to 2.5 Gbps
Wavelengths	Upstreams 1,310 nm Downstreams 1,490 nm
Ethernet Functionality	
Multicasting	IGMP v2/v3, supporting IGMPv3 snooping with proxy reporting and message suppression
VLAN	VLAN according to 802.1Q Double Tag VLANs (Q-in-Q) according to 802.1ad
Management	
MCST	For local management
UNEM	For central management
Power Supply	
Input voltage nominal (min/max)	-48/-60 V DC (-39.5 V DC ... -72 V DC)
Operation Environment	
Temperature range and humidity	According to MileGate environmental specifications

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