MileGate SUE16
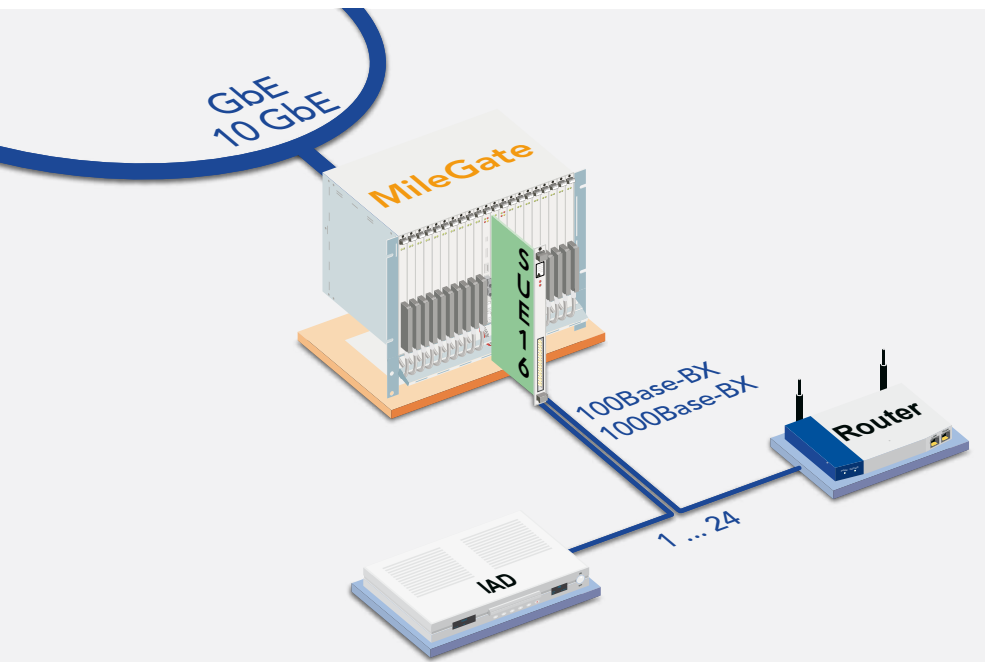
High density active Ethernet Fibre-to-the-Home (FTTH) line card for residential subscribers

Applications with MileGate SUE16

+ 24 x 100 Mbps/1,000 Mbps optical Ethernet interfaces

+ Pluggable cSFP modules for a pay-as-you-grow solution

+ High port density with up to 480 interfaces per subrack

+ 10 Gbps access to the backplane

+ Designed for indoor and outdoor usage

+ All functions from one network management system

+ For all MileGate subracks

+ Within the MileGate Fiber Series product line, optimized for all-optical access, coverless operation in the MileGate 2510/2310 subracks is supported

The SUE16 line card provides 24 optical Ethernet interfaces using compact SFP (cSFP) modules. With the 100Base-BX or 1000Base-BX cSFPs network operators can realise flexible Ethernet point-to-point networks.

With high port density and advanced low power consumption technology, the SUE16 is ideal for Fibre-to-the-Home or Fibre-to-the-Building networks

Optical Ethernet services

SUE16 uses active Ethernet technology for the subscriber connection. Installing Ethernet point-to-point leads to a sustainable network infrastructure. SUE16 is ideal to provide Triple Play services to a variable size customer base.

Up to 480 subscribers can be served with a fully-equipped MileGate 2510 subrack. Thanks to the compact design and the low power consumption, Mile-Gate with SUE16 can be placed in central office locations, small

telecommunication rooms, or street cabinets.

High-speed broadband

SUE16 provides bandwidth of up to 1,000 Mbps for each subscriber. As a result, MileGate is future-proof for ultra-broadband applications.
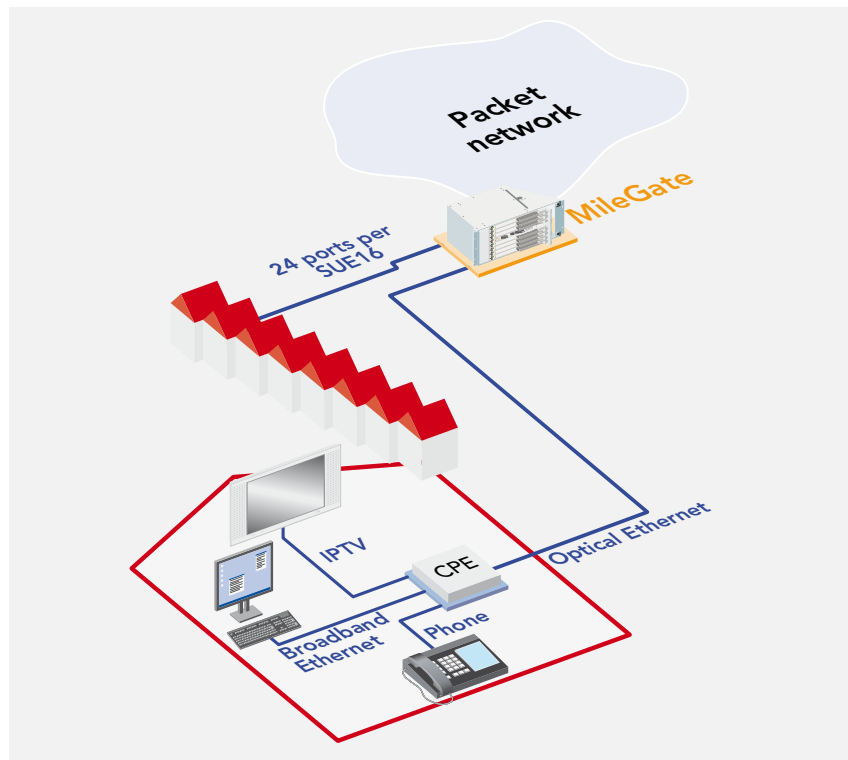
Interoperability

The SUE16 line card supports standard Ethernet interfaces and is compatible to CPEs according to the industry standard.

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 redundant as a safeguard against failure.

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

Data Transmission	
Ethernet ports	24 x GbE 100Base-BX10 or 1000Base-BX10
Connector type	cSFP, LC receptacle
Optical transmission	Bidirectional, single mode
Ethernet Functionality	
Supported protocols	PPPoE
	PPPoE Intermediate Agent acc. to Broadband Forum TR-101 and IETF RFC 2516
	IPoE
	DHCP Option 82 according to IETF RFC 2131, RFC 951, RFC 3046
VLAN	VLAN tagging (IEEE 802.1Q), port-based VLANs
	Modes 1:1 or n:1
	Double Tag VLANs (Q-in-Q) according to 802.1ad
	Triple Tag VLAN
Multicasting	IGMP v2/v3
IGMPv3 snooping	According to IETF RFC 3376 with IPoE
Class of service	CoS (IEEE 802.1p)
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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