

MileGate SUE12

High density Ethernet line card for business services and advanced IP applications



Optical Ethernet line card SUE12

- + 12 x 100 Mbps/1,000 Mbps Ethernet interfaces
- + Pluggable SFP modules for a pay-as-you-grow solution
- + Mixed electrical or optical SFP modules supported
- + High port density with up to 240 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 SUE12 line card provides 12 Ethernet interfaces for optical or electrical SFP modules. A wide range of SFP modules is supported to allow customization of the interfaces with 100 Mbps or 1,000 Mbps transmission capacity.

The SUE12 uses active Ethernet technology for the subscriber connection. Installing Ethernet point-to-point leads to a sustainable network infrastructure.

Ethernet services

Up to 240 optical or electrical connections can be provided with a fully-equipped subrack. SUE12 is ideal for high availability business subscriber applications or mission critical applications within the transport, authority, and utility networks which require performance in extreme environmental conditions.

Advanced Ethernet functionalities

SUE12 delivers advanced Ethernet functionalities such as traffic prioritization, advanced traffic policers, up to triple VLAN tagging, and Transparent LAN services.

Ethernet services aggregated on SUE12 can also take advantage of the different MileGate multiservice capabilities and the variety of interfaces and transport technologies.

Fail-safe concept

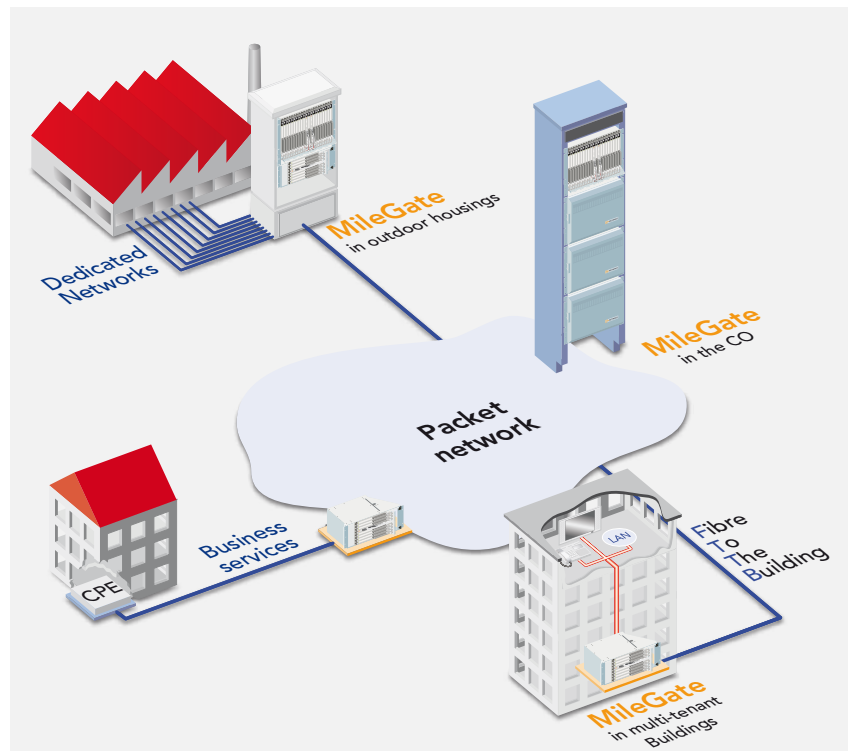
MileGate offers you a fail-safe concept in carrier class quality. All the units have local power supplies. The core unit can also be redundant as a safeguard against failure

High-speed broadband

SUE12 provides bandwidth support of up to 1,000 Mbps for each end point. As a result, today's access network is well equipped to deal with tomorrow's challenges.

Management

All services are managed centrally via the management system UNEM or via local management access (CLI, XML, SNMP).



Technical Data

Data Transmission	
Ethernet-Ports	12 x 100 Mbps or 1,000 Mbps optical or electrical ports
Connector type	LC or SC depending on optical SFP
Optical transmission	Bidirectional or unidirectional depending on optical SFP.
EFM (Ethernet in the First Mile)	According to IEEE 802.3ah
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 Double Tag VLANs (Q-in-Q) according to 802.1ad, Triple Tag VLAN Triple Tag VLAN
Multicasting	IGMP v2/v3, IGMPv3 snooping according to IETF RFC 3376 with IPoE
Class-of-Service	CoS (IEEE 802.1p)
General	1:1 mode, n:1 mode for residential customers Transparent LAN Service or Private Line Service for business customers
Weitere Hardware Informationen	
MTBF	50 years at 35 °C
VLAN filtering	1 Gbps or 10 Gbps
Management	
MCST	According to IEEE 802.1Q, 4096 VLANs supported
Ethernet Backplane-Zugang	Für zentrales Management
Stromversorgung	
Eingangsspannung nominal (min/max)	-48/-60 V DC (-39.5 V DC ... -72 V DC)
Betriebsumgebung	
Temperaturbereich und Luftfeuchtigkeit	According to MileGate environmental specifications