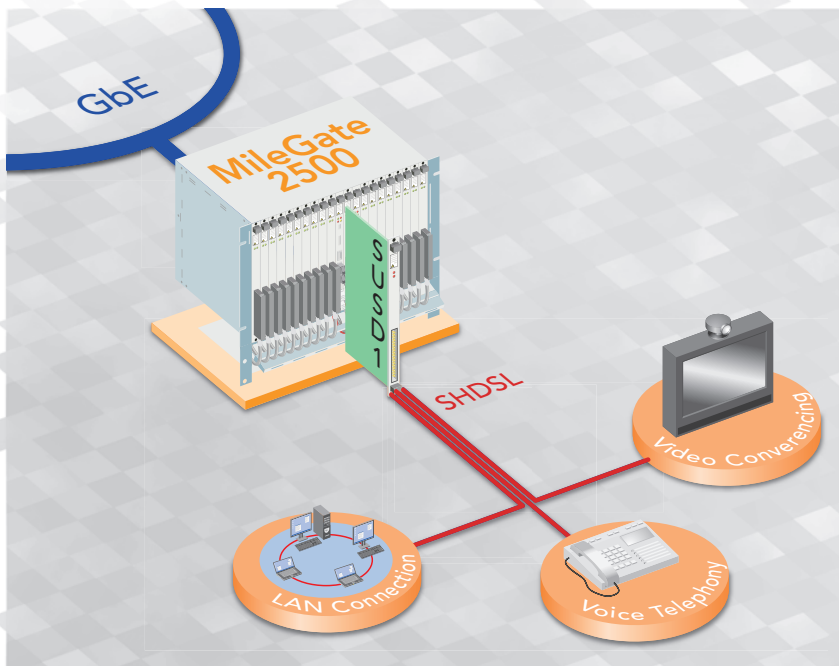


# MileGate SUSD1

SHDSL Line Card for symmetric High-Speed Business Services



- SHDSL/SHDSL.bis (ATM) with up to 11.4Mbps
- Pair-Bonding
- Up to 640 ports per subrack
- For MileGate 2500 and MileGate 2300
- Integrated Ethernet-IP-DSLAM
- Designed for indoor and outdoor deployment
- All functions out of one network management system

The MileGate SHDSL ATM line card SUSD1 from KEYMILE brings symmetric high-speed business connections to the end customer. The introduction of new services is as simple as never before with the integrated and progressive DSLAM functionality.

Together with POTS and ISDN modules traditional and broadband high-speed NGN services are available in a single network element.

## ■ SHDSL ATM in MileGate

Modern services as VoIP, broadband Internet and video conferencing can be provided using the SHDSL transmission in MileGate. In addition company networks can be interconnected with high speeds thus opening new turnover potentials to network operators.

With the continuous outdoor concept of MileGate you can provide DSL even with most adverse environmental conditions.

With the MileGate 2300 an optimum subrack for street cabinets and device compartments is available.

## ■ Safety Concept

MileGate offers fail safety in carrier-grade quality. For this purpose all modules come with decentral onboard power supplies. In addition the central module can be made redundant to guarantee for optimum fail safety.

### ■ Pair Bonding

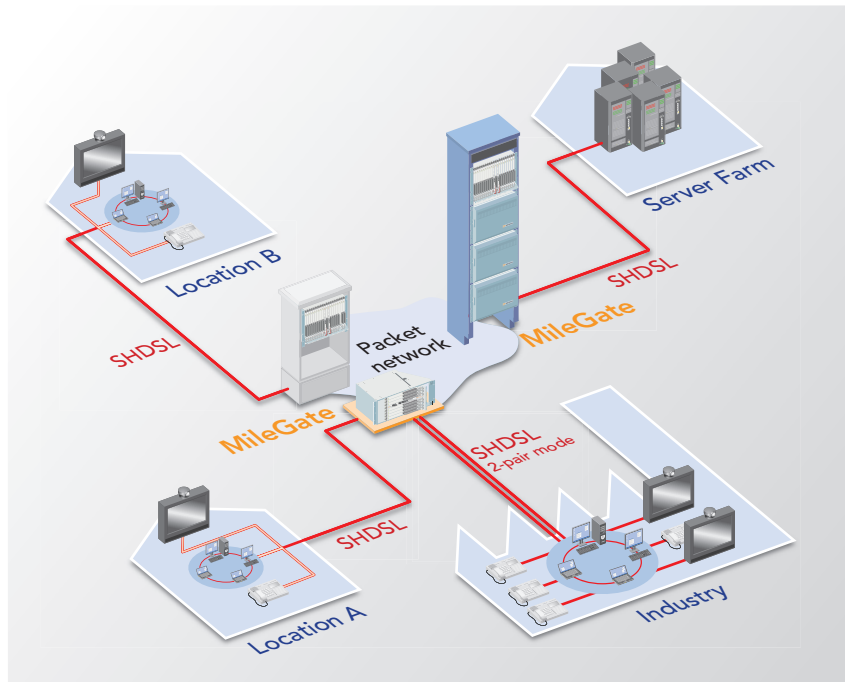
SUSD1 provides pair bonding to guarantee for an optimum transmission range. With pair bonding two wire pairs are combined to one transmission line.

### ■ SHDSL.bis

Because of the implementation of Annex G from the ITU-T G.991.2 standard you can transmit up to 11.4 Mbps over two wire pair.

### ■ Interoperability

The SUSD1 line card support standard interfaces and is compatible to customer equipments according to the SHDSL ATM standard.



MileGate and SUSD1 in SHDSL applications

## Technical Data

SHDSL ATM	
Number of ports	32
Supported standards	ITU-T, G.991.2, Annex B – 2,3Mbps (TCPAM-16) ITU-T, G.991.2, Annex G – 3,8Mbps (TCPAM-16), 5,7Mbps (TCPAM-32)
Pair bonding	4-pair operation – 7,6Mbps (TCPAM-16), 11,4Mbps (TCPAM-32)
IP Functionality	
Number of VCs	Up to 8 per port
Supported protocols	PPPoE PPPoE Intermediate Agent acc. to DSL Forum TR-101 and IETF RFC 2516 IPoE DHCP Option 82 according to IETF RFC 2131, RFC 951, RFC 3046
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 Modes 1:1 or n:1
VLAN tagging	In upstream direction
VLAN filtering	In downstream direction
ATM/Ethernet interworking	ATM VCC is terminated
Management	
UCST	For local management
UNEM	For central management
Power Supply	
Input voltage nominal (min/max)	-48/-60VDC (-40.5VDC ... -72VDC)
Operation Environment	
Temperature range and humidity	According to UMUX environmental specifications



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