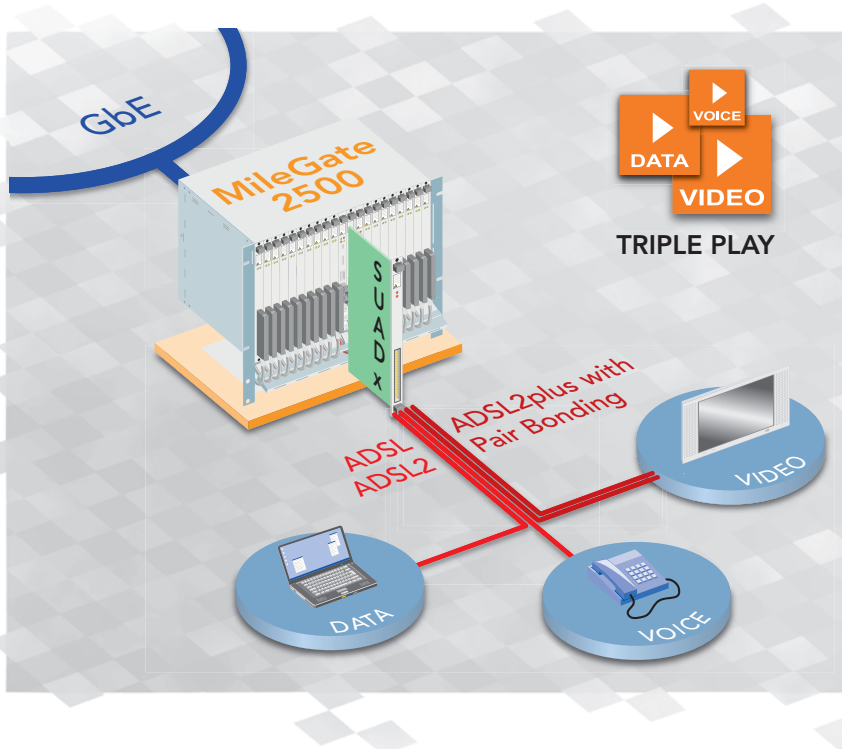


MileGate SUAD3/SUAD4

ADSL2plus line cards for the broadband Internet access of residential customers



- ADSL/ADSL2/ADSL2plus are supported
- 48 ports per line card
- 2-pair bonding supported with SUAD3
- Interworking with POTS or ISDN
- Up to 960 ports per subrack
- Designed for indoor and outdoor deployment
- All functions out of one network management system

MileGate's new high-density ADSL2plus line cards SUAD3/SUAD4 from KEYMILE bring Triple Play services to the end customer. The introduction of new services is as simple as never before with the integrated and progressive DSLAM functionality. The SUAD3 supports ADSL2plus pair bonding of two copper pairs. This feature enables higher bitrates on longer transmission lines.

Together with POTS and ISDN modules traditional and broadband high-speed NGN services are available for each access line.

■ ADSL2plus in MileGate

Using ADSL2plus transmission in MileGate, modern services as VoIP, broadband Internet, Video-on-Demand and IPTV can be provided via ADSL2plus. This opens new turnover potentials for network operators.

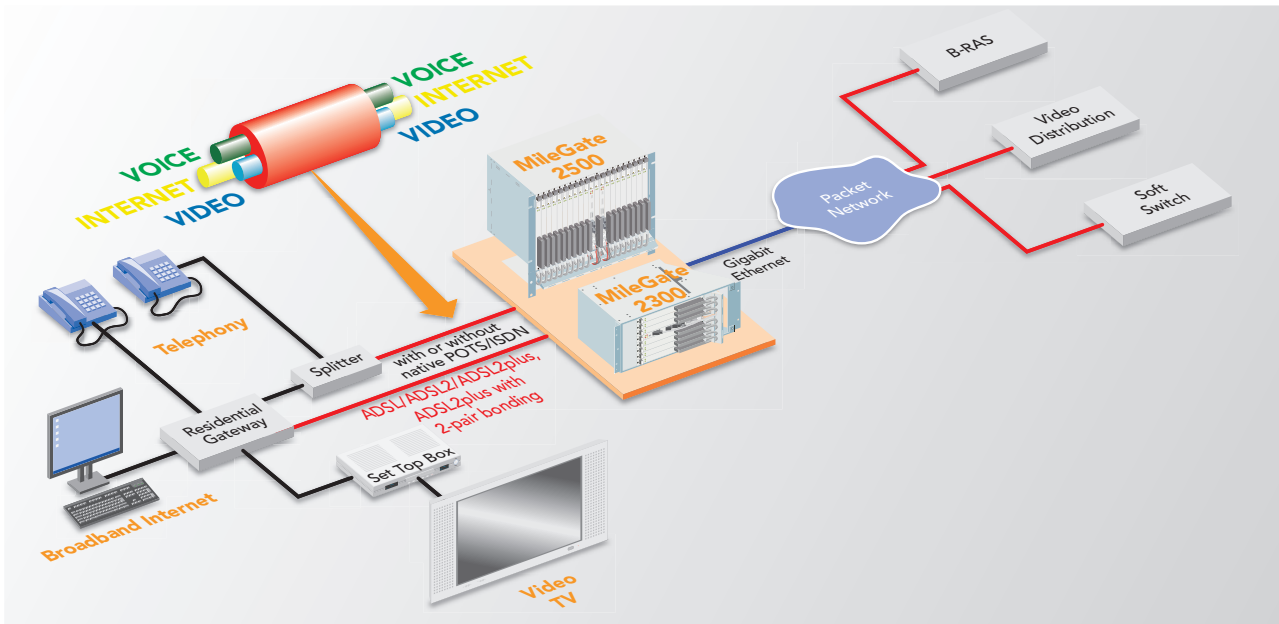
■ Two-stage Multicasting

The two-stage multicasting feature of the SUADs and core unit COGE1 provides efficient data transmission. This is essential for bandwidth consuming applications as the transmission of TV channels in particular. The

data signal is multiplied in the units for the corresponding members of multicast groups and it is only transmitted to these thus avoiding unnecessary data traffic to all users.

■ Seamless Migration

The migration towards NGN voice services is ensured using the SIP or H.248 Voice Media Gateway function in the same MileGate. That way network operators can offer existing voice services further on and migrate towards NGN without compromising existing customer connections.



Technical Data

Designations	
SUAD3	ADSL/ADSL2/ADSL2plus over POTS (ITU-T G.992.1, G.992.3, G.992.5 Annex A)
SUAD4	ADSL/ADSL2/ADSL2plus over ISDN (ITU-T G.992.1, G.992.3, G.992.5 Annex B)
ADSL	SUAD3 SUAD4
Number of ports	48
Supported standards	ITU-T G.992.1 Annex A ITU-T G.992.1 Annex B ITU-T G.992.3 (ADSL2) Annex A, L, M ITU-T G.992.3 (ADSL2) Annex B ITU-T G.992.5 (ADSL2plus) Annex A, M ITU-T G.992.5 (ADSL2plus) Annex B ITU-T G.998.1 (ADSL2plus ATM 2-pair bonding)
Handshake	According to G.994.1
PSD shaping	DPBO (downstream power back-off), custom PSD
Power modes	L2 (low power) and L0 (full on) according to G.992.3
VCs per access line	Up to 7
Ethernet Functionality	
Supported protocols	PPPoE with Intermediate Agent acc. to DSL Forum TR-101 and IETF RFC 2516 IPoE with DHCP Option 82 according to IETF RFC 2131, RFC 951, RFC 3046 PPPoA to PPPoE interworking (only SUAD3)
MAC spoofing prevention	Mac address translation
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
ATM/Ethernet interworking	ATM VCC is terminated
VLAN tagging	In upstream direction
VLAN filtering	In downstream direction
Management	
MCST	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 MileGate environmental specifications



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or contact us: info@keymile.com ...