MileGate LOMI8

LOMI8 provides TDM uplink of services in the NGN platform MileGate

Applications with LOMI8
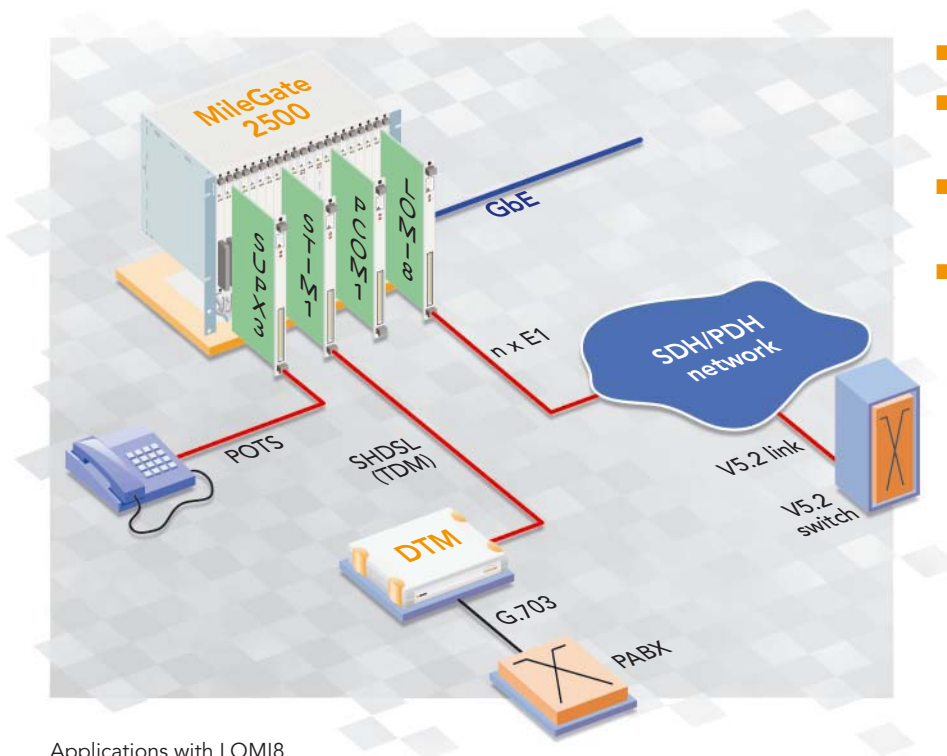
- 8 x E1 interfaces G.703/G.704
- Access to TDM bus in MileGate
- Uplink of MelCAS and V5.2 voice
- Uplink of TDM SHDSL data traffic

LOMI8 provides MileGate with interfaces towards a TDM network and the capability to provision TDM services on the NGN platform. LOMI8 provides the uplink for TDM voice and data services via E1 links. Simultaneous coexistence of Ethernet and TDM uplink allows for an easy migration to NGN services whilst maintaining some of the current TDM services

LOMI8 works in conjunction with the PCOM1, STIM1, and SUPx3 units in order to provide V5.2 links termination, TDM SHDSL and voice services respectively.

■ Introduction

Most network operators face the problem of having to maintain some of their TDM services while migrating to a NGN network. It is due to this pressing issue that KEYMILE has decided to make available some of the important TDM services within its NGN platform, MileGate.

The connection of these services to the TDM network is done via E1 links provided in the LOMI8 unit.

LOMI8 works in conjunction with other service units to create different solutions for the customer in the following manner:

☐ STIM1 line card and LineRunner DTM desktop: For TDM SHDSL based data services.

☐ PCOM1 unit and SUPM3/ SUPC3:
For termination of V5.2 links and user interfaces

☐ SUPM3/SUPC3 line card For MELCAS voice user interfaces.

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LOMI8

The LOMI8 unit features eight electrical interfaces according to ITU-T G.703 for 2 Mbps traffic signals and provides the corresponding cross-connect capacity. The interfaces are available according to the symmetrical 120 ohms and the asymmetrical 75 ohms standard.

Each of the eight 2 Mbps ports of the LOMIF can process signals on the 2 Mbps traffic signal layer.

- Mapping of the 2 Mbps traffic signals
  – Transparent
  – Terminated
- Front interfaces for traffic signals and cables
- The LOMI8 provides 8 electrical interfaces according to ITU-T G.703 for
  – 120 ohms symmetrical
  – 75 ohms asymmetrical
- Cross connection for Plesiochronous (structured or unstructured) 2 Mbps signals
- Synchronisation
  Provisioning of timing signals for the PETS timing blocks

- Performance monitoring
  For structured 2 Mbps traffic signals according to ITU-T G.826. The performance of unstructured signals is monitored in the same way

Management System

The MileGate management and the variety of services are administered centrally by MCST/UNEM. Operators save costs and accelerate the provisioning process with only one element manager for all service types.

Technical Data

MileGate LOMI8	
ITU-T recommendations	G.703, G.704, G.823
Bit rate	2048 kbps ± 50 ppm
Line impedance	75 ohms asymmetrical or 120 ohms symmetrical
Number of ports	8
Performance monitoring	According to G.826
Front connector type	DIN 41612
Power Supply	
Input voltage nominal (min/max)	-48/-60 V DC (-40.5 V DC ... -72 V DC)
Operation Environment	
Temperature range and humidity	According to MileGate environmental specifications

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