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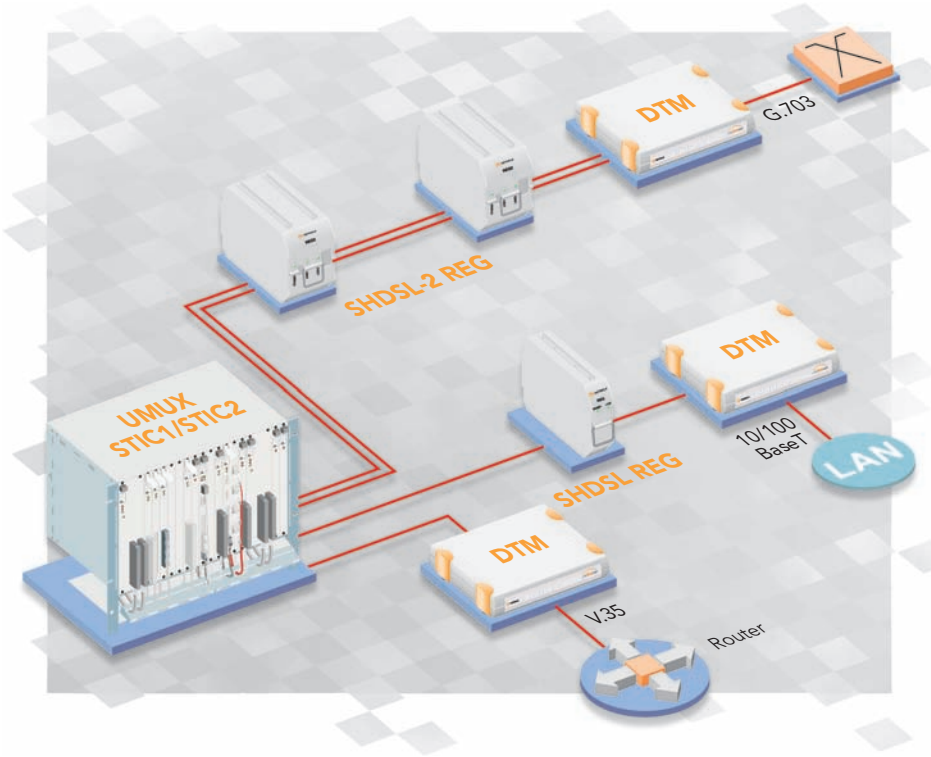
UMUX STIC1/STIC2

SHDSL line cards STIC1/STIC2 and LineRunner DTM provide a reliable and efficient base for TDM SHDSL services



- Wide range of interfaces:
  - G.703/G.704
  - X.21/V.11
  - V.35, V.36
  - V.24/V.28
  - 10/100BaseT
- Subrates supported
- 1 and 2 pair transmission
- Regenerators for extended reach
- Remote power feeding

With its TDM SHDSL product suite consisting of line cards (STIC1, STIC2), Desktop (LineRunner DTM) and Regenerators, UMUX provides an ideal platform for broadband as well as for narrowband data services.

Introduction

One of the main applications of the next generation multi-service access platform UMUX is the implementation of data services based on copper access lines using DSL (Digital Subscriber Line) transmission.

For TDM SHDSL based data services UMUX provides the SHDSL product suite:

- STIC1/STIC2: Line cards
- LineRunner DTM: Desktops
- LineRunner REG: Regenerators

It offers a wide range of interface types and transmission capacities from subrates and n x 64 kbps up to 2048 kbps. Thus it supports almost any kind of business data service, for example:

- Broadband Internet access
- VPN and LAN-LAN services
- ISDN Primary Rate Access
- Transparent 2 Mbps leased lines
- GSM/UMTS base station backhaul

With the integration of regenerators, remote power feeding and the ability to provide 1 or 2 pair transmission it is possible to provide service even under difficult loop conditions and with extended reach.

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Line cards STIC1 and STIC2

The line cards STIC1 and STIC2 support up to 8 single pair or 4 two pair SHDSL transmission interfaces, or a mixture of the two. Both units provide flexible configurable LT (local) and NT (remote) modes, for use in trunk applications with the UMUX. STIC2 additionally offers on-board remote powering functionality that is able to provide power to LineRunner DTM desktops or regenerators over one or two copper pairs.

Desktop LineRunner DTM

LineRunner DTM provides network termination at the customer premises. Through its modular design LineRunner DTM supports a wide range of interfaces types, for example: G.703, X.21/V.11, V.35, V.36, V.24/V.28, 10/100BaseT. Optionally the data interfaces support subrates (600 bps up to 64 kbps). It can be used as CPE in combination with the UMUX or in desktop-desktop configuration.

Regenerators

In order to increase service coverage beyond the standard reach of SHDSL transmission technology, regenerators can be used with the UMUX SHDSL solution. Up to two regenerators per line are supported. Regenerators can be powered remotely from the STIC2 as well as from the LineRunner DTM. They can be mounted in different housings for indoor, pole, wall and underground installation.

Rate adaptive

The payload data and transmission rate between LT and NT can be adjusted via the management software. The line transmission rate is n x 64 kbps, where n is in the range 3 to 32. At the user interface the data rate is n x 64 kbps, where n is in the range 1 to 32. To ensure maximum spectral compatibility, the transmit power can be reduced at short distances between central office and customer locations

Supplementary features

Additionally, STIC1 and STIC2 in combination with the LineRunner DTM provide features enhancing TDM SHDSL services and supporting operational processes:

- End-to-end protection (1 +1 protection)
- Subrates support
- Point-to-multipoint transmission
- Performance monitoring
- Test loops

Transmission with UMUX

The services connected via the LineRunner DTM Desktop to the line cards STIC1 and STIC2 in the UMUX can be multiplexed and transmitted to the network via the TDM, SDH, and ATM interfaces available in the UMUX platform. Thus, flexible grooming and multi-service architectures can be implemented.

Technical data

General	
Services supported	2048 kbps transparent (n x 64 kbps, n = 1 to 32)
Line code	16 TC-PAM according to G.991.2
Service rates	n x 64 kbps duplex via 1 or 2 copper pairs, n = 1 to 32
Transmission rate	n x 64 kbps duplex via 1 or 2 copper pairs, n = 3 to 32
Optional functions	Point-to-multipoint function, 1+1 path protection
Regenerators support	1-pair or 2-pair regenerators (up to 2 per DSL link)
Line cards STIC1/STIC2	
Interface	8 x 1-pair SHDSL, 4 x 2-pair SHDSL or mixed configuration
Remote power feeding	Remote power feeding, over 1- or 2-pair (available on STIC2)
Desktop LineRunner DTM	
User interfaces	G.703/G.704 (120 ohms symmetrical, 75 ohms asymmetrical), X.21/V.11, V.35, V.36, V.24/V.28, 10/100BaseT, ISDN PRA (I.431)
Service rates	600 bps up to 2048 kbps
Power supply	88 ... 264 VAC (47 ... 63 Hz) 38 ... 60 VDC Remotely powered
Dimension (h x w x d)	50 x 290 x 225 mm
Remote power feeding	Optionally available

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