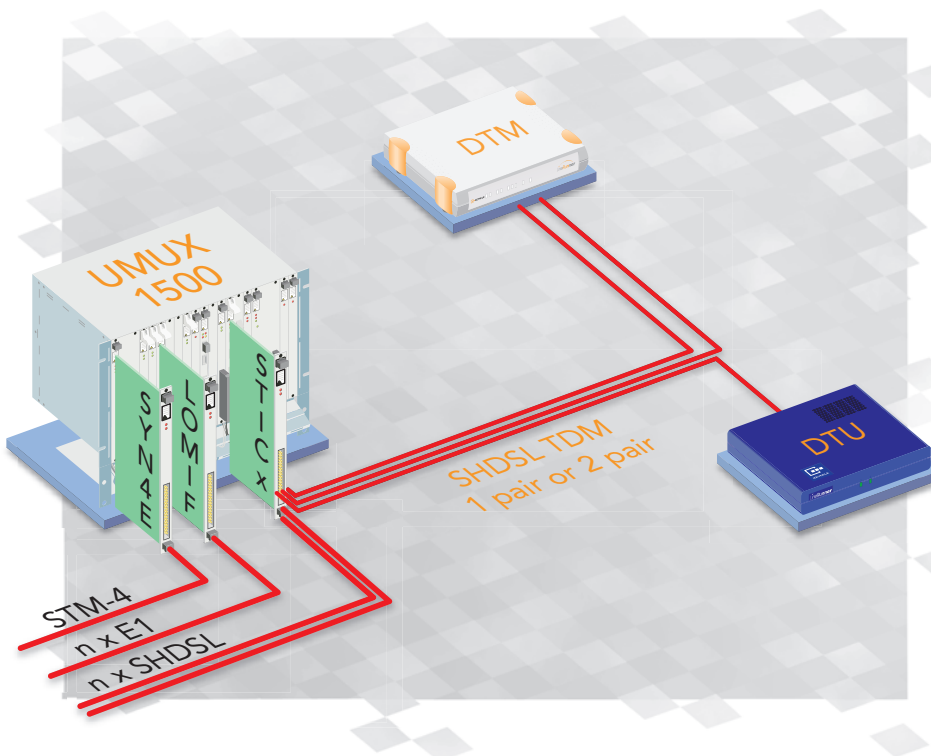


UMUX STIC1/STIC2

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



- 8 SHDSL TDM ports
- 1 and 2 pair transmission
- Remote power feeding (with STIC2)
- Support of regenerators for extended reach
- Wide range of subscriber interfaces in UMUX and at the CPEs
- Two services via 1 or 2 copper pairs
- Trunk mode with network clock transmission
- All functions out of one network management system

With the SHDSL TDM line cards STIC1/STIC2 business customer services can be connected easily to your network via symmetrical SHDSL.

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

■ STIC1/STIC2

UMUX STIC1/STIC2 line cards support 8 SHDSL ports, which can be configured for 1 pair or 2 pair transmission. Possible are:

- 8 x 1 pair operation
- 4 x 2 pair operation
- mixture of the two

Both line cards are flexible configurable as LT (local) and as NT (remote). Thus, the line cards can connect business customer services direct via a CPE as well as interconnect UMUX systems via SHDSL lines. STIC2 addition-

ally offers on-board remote powering module.

■ Remote power feeding

STIC2 features an integrated remote power supply module. With it regenerators and CPE can be remotely powered via one or two copper pairs. Alternatively the remote supply module is able to generate a wetting current. A wetting current is a constant low current that protects the contacts on a transmission route from corrosion.

■ Trunk mode

With UMUX STIC1/STIC2 remote UMUX subracks can be interconnected in a star or line structure via SHDSL TDM lines and synchronised with a central clock signal. Also a ring connection to secure the transmission path against an interruption can be realised. With the clock transmission functionality of the STIC1/STIC2, UMUX subracks can be held synchronal even in the case of ring interruption.

■ CPEs

With the LineRunner SHDSL CPE families

- LineRunner SHDSL DTM
- LineRunner SHDSL DTU

a wide range of different application interfaces (e.g. E1, V.35,

Ethernet) is provided for the UMUX STIC1/STIC2.

For further information about the CPEs and the interfaces please refer to the regarded data sheets.

■ Regenerators

LineRunner SHDSL regenerators are available to extend the transmission reach of the SHDSL systems. Up to two regenerators can be installed per transmission path. The regenerators can be powered locally or via UMUX STIC2 or LineRunner SHDSL DTM remotely

■ Supplementary features

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

- End-to-end protection (1 + 1 protection)*
 - Subrates supported (data rate <64 kbps)*
 - Point-to-multipoint transmission*
 - Performance monitoring
 - Test loops
 - Two services via 1 or 2 copper wire**
- * only in combination with LineRunner SHDSL DTM
- ** only in combination with LineRunner SHDSL DTU

■ Management system

UMUX units and the variety of services are administered centrally by UCST/UNEM. Operators save costs and accelerate the provisioning process with only one element manager for all service types.

Technical Data

SHDSL Interface	
Transmission standard	SHDSL, 1 pair or 2 pair operation
Number of ports	8
Configuration	8 x 1 pair, 4 x 2 pair or a mixture of the two
Line code	16 TC-PAM according to ITU-T G.991.2 Annex B
Data rates (per port)	n x 64 kbps duplex, n = 3 ... 32
Remote supply (with STIC2)	<115VDC (according to EN 60950), 75 mA
Wetting current	Typical 2 mA, max. 10 mA (according to ITU-T 991.2)
Remote supply of NT or regenerator	Via 1 or 2 copper pairs
Network clock transmission	Via SHDSL clock Via E1 user data
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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