SIEMENS

Long Reach DSTU

& Long Reach SRU

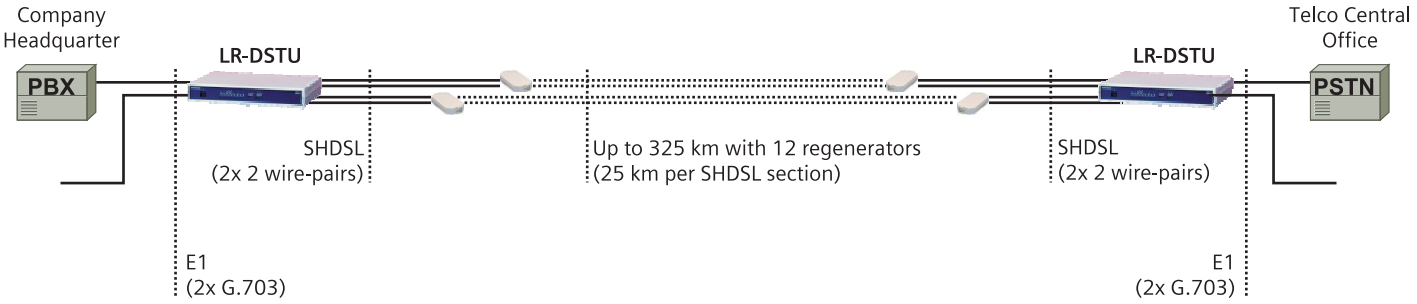
ULAF+

Product Overview

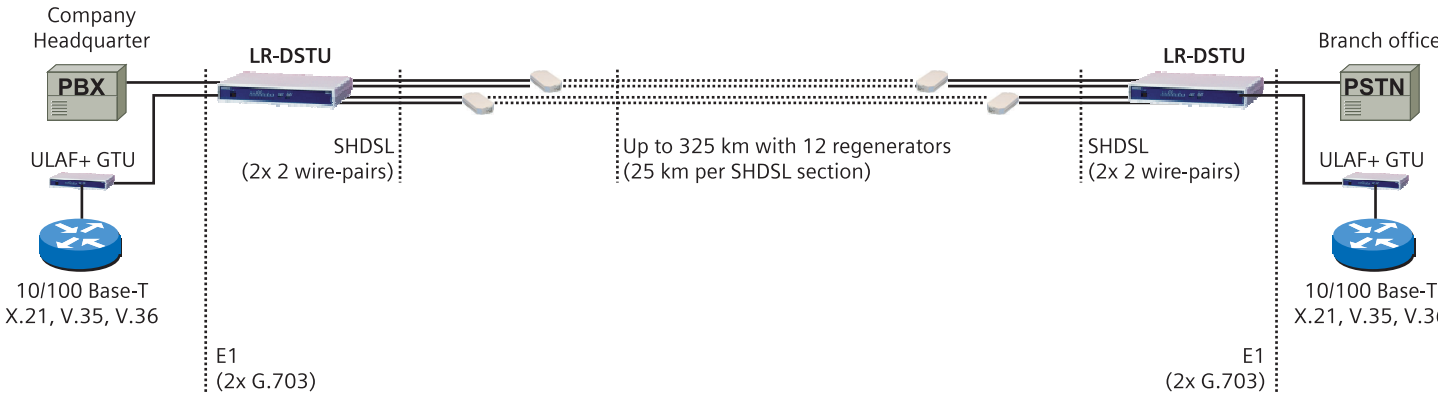
The Long Reach Network Termination Unit ‚LR-DSTU' and the Long Reach Regenerator ‚LR-SRU' extend the product portfolio of the SHDSL access product family ULAF+ with a solution for voice and data transmission over verly long distances.

E1 and nx64 kbit/s simplex transmission over two copper wire-pairs with up to 12 regenerators allow for distances up to 325 km. ULAF+ Long Reach is also very well suitable to replace old PCM30 and carrier frequency systems such as K.12, K.48 and K.60.

Typical application - PBX connection to PSTN



Typical application - Corporate Network



Product Overview

Maximum link reach

Standard SHDSL equipment use a single copper wire-pair for duplex transmission, thus limiting the performance of the receiver sensitivity due to crosstalk from adjacent transmission channels.

ULAF+ Long Reach DSL operates in a simplex mode over two wire-pairs, resulting in transmission distances of up to 25 km (1,2 mm cable) due to higher receiver performance. With up to 12 regenerators, SHDSL links of 325 km for voice and data transmission can be achieved.

Among others, oil and gas utility companies with long pipelines, electricity authorities or railways will profit from the ULAF+ Long Reach DSL solution.

Protecting installed base

Many customers are looking for replacement of the widespread, but out-dated PCM30 and carrier frequency systems (K-12, K-48, K-60). Since this kind of legacy equipment uses simplex transmission technology, additional cable bundles would be required for standard SHDSL solutions.

In contrast, ULAF+ Long Reach DSL can be deployed using the same direction-separated cable bundles, not interfering with the installed base and protecting earlier investments in older telecommunication equipment.

One platform

ULAF+ Long Reach DSL is compatible with ULAF+ infrastructure (e.g. 19" rack and controller card) and can be combined with other ULAF+ equipment, such as SHDSL and optical termination units. For more information on the ULAF+ product family please request presentational material.

For further information please contact:

Siemens Switzerland Ltd
Business Innovation Center
Albisriederstrasse 245
CH-8047 Zürich

Fax: +41 585 585 414
e-mail: international.sales@siemens.ch

Visit our website
http://www.siemens.ch/ulaf

Technical data

Interfaces

Network
2 Mbit/s G.703 . . . . . .2x RJ45 (ISO 8877)

Transmission
SHDSL over 2x UTP copper . . . . . .1x RJ45 (ISO 8877)
Line Code . . . . . .TC-PAM 16 / TC-PAM 32
Technology . . . . . .ETSI TS 101 524, ITU-T G.991.2
Bitrates . . . . . .384, 1024, 2048 kbit/s

Local Craft Terminal (LCT)
Serial V.24 interface . . . . . .1x RJ45 (ISO 8877)

Power supply

LR-DSTU input voltage plug-in unit . . . . .48 V_{DC} / 60 V_{DC}
LR-DSTU input voltage desktop . . . . . .48 V_{DC} / 60 V_{DC}

LR-DSTU Remote Power Supply (RPS)
Voltage . . . . . .290 V_{DC}
Current . . . . . .50 mA

LR-DSTU power consumption without RPS
Typical . . . . . .5 W
Maximum . . . . . .< 6 W

LR-DSTU power consumption with RPS for 6 LR-SRUs
Maximum . . . . . .60 W

LR-SRU RPS power consumption
Typical . . . . . .< 2 W

Physical and environment

LR-DSTU plug-in unit . . . . . .Double Eurocard size
LR-DSTU desktop (W x H x D) . . . . .272 x 47,5 x 175 mm
. . . . . .(wall-mounting possible)
LR-SRU (W x H x D) . . . . . .203 x 26 x 102 mm)

LR-DSTU operation conditions . . . . . .-15° – +55° C
at 5 – 95% rel. humidity
LR-SRU operation conditions . . . . . .-30° – +55° C
at 5 – 95% rel. humidity