

Long Reach DSTU

& Long Reach SRU



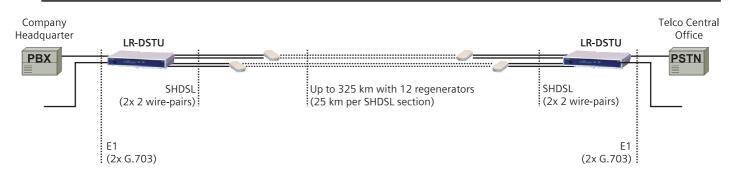
Product Overview

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.

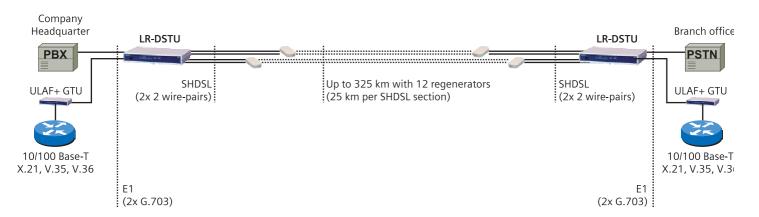
E1 and nx64 kbit/s simplex transmission over two copper wire-pairs with up to 12 regenerators allow for distances up to 325 km. ULAF+ Long Reach is also very well suitable to replace old PCM30 and carrier frequency systems such as K.12, K.48 and K.60.



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.

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Technical data

Interfaces Network 2 Mbit/s G.7032x RJ45 (ISO 8877) Transmission SHDSL over 2x UTP copper1x RJ45 (ISO 8877) Line CodeTC-PAM 16 / TC-PAM 32 TechnologyETSI TS 101 524, ITU-T G.991.2 Bitrates384, 1024, 2048 kbit/s Local Craft Terminal (LCT) Serial V.24 interface1x RJ45 (ISO 8877) **Power supply** LR-DSTU input voltage plug-in unit48 V_{DC} / 60 V_{DC} LR-DSTU input voltage desktop48 V_{DC} / 60 V_{DC} LR-DSTU Remote Power Supply (RPS) LR-DSTU power consumption without RPS LR-DSTU power consumption with RPS for 6 LR-SRUs LR-SRU RPS power consumption Typical< 2 W Physical and environment LR-DSTU plug-in unitDouble 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

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Technical modifications possible. Technical specifications and features are binding only insofar as they are specifically and expressly agreed upon in a written contract.