

CROCUS SHDSL REPEATER new



FEATURES & BENEFITS

- > SHDSL LINE REPEATER FOR USE ON A SINGLE UNSHIELDED TWISTED COPPER PAIR
- > BASED ON THE G.SHDSL STANDARD FOR HIGHER SPEEDS AND LONGER LOOP RANGES
- > VARIABLE LINE-TRANSMISSION RATES UP TO 2 MBPS
- > LOCALLY OR REMOTELY POWERED
- > AVAILABLE AS DESKTOP UNIT OR IN PROTECTED IP67 HOUSING
- > MANAGEABLE VIA DSL LINK

> THE SHDSL LINE CODING UTILIZED IN THE TELINDUS SHDSL TRANSMISSION EQUIPMENT PROVIDES SUPERIOR REACH AND NOISE IMMUNITY COMPARING TO OTHER DSL TECHNOLOGIES.

Nevertheless local loop distances may exceed the distance achievable by simple point-to-point configurations, especially if full 2Mbps transport is required. Examples include DSL links alongside railways, motorways,

pipelines, waterways, power lines and local loops in rural areas. Therefore, the Telindus SHDSL range is complemented with a SHDSL repeater.

Each repeater fully regenerates the signal and thus doubles the transmission distance. It is possible to deploy multiple repeaters on a single link without introducing jitter and wander problems. Repeaters can be locally or remotely powered. The Crocus SHDSL Repeater is available in an indoor and an outdoor version. The outdoor version is IP67 protected.

The Crocus SHDSL Repeater can be managed locally with a VT100 terminal or terminal emulation. Alternatively it is manageable over the line from the central SHDSL equipment, using the standard EOC messages. It means that the Crocus SHDSL repeater can be fully integrated in network maintenance and management suite as described in this catalogue. Apart from status, performance and alarms information, several test loops can be initiated.

LINE INTERFACE

- > Applicable standards: ITU-T G.991.2, G.994
- > Single pair line access
- > Connector: one RJ45 (desktop unit)
- > Impedance: 135 ohm
- > Coding: TC PAM, compliant to ITU-T G.991.2 (G.SHDSL)
- > Line speeds: N x 64 kbps (N = 1 ... 32)
- > Handshaking: compliant G.994.1 (automatic speed negotiation) or fixed speed
- > Performance monitoring: compliant G.826 (errored seconds, severely errored seconds, unavailability seconds)
- > Analogue Loop, Analogue Loop + Error pattern and Digital Loop tests on the SHDSL line interface

IDEAL MAXIMUM DISTANCE (NOISE-FREE)

1 pair	2 pair	0.4mm	0.5mm	0.6mm	0.8mm	1.0mm	1.2mm
Speed (kbps)	Speed (kbps)	24AWG (km)	24AWG (km)	20AWG (km)	18AWG (km)	20AWG (km)	18AWG (km)
64	128	11.0	15.1	21.5	27.2	38.2	42.4
128	256	8.0	11.0	15.6	19.8	27.8	30.8
256	512	8.2	11.3	16.0	20.3	28.5	31.6
512	1024	7.2	9.9	14.0	17.8	25.0	27.7
1024	2048	5.5	7.6	10.7	13.6	19.1	21.2
1536	3072	4.0	5.5	7.8	9.9	13.9	15.4
2048	4096	4.2	5.8	8.2	10.4	14.6	16.2

LOCAL CONSOLE INTERFACE

- > Electrical: ITU-T V.24, V.28
- > Connector: female DB9 (EIA/TIA 574)

FRONT PANEL INDICATIONS

- > PWR
- > NE: Indicates the near line status (line towards central modem)
- > FE: Indicates the far line status (line towards remote modem)

MAINTENANCE AND MANAGEMENT SUPPORT

- > Direct connection for VT100 local console
- > Management information available over the line via the EOC messages
- > Complete set of management tools on a central SHDSL equipment gives full access to repeater information

MECHANICAL DATA (H x W x D)

Indoor housing: 46 x 230 x 160 mm Weight: 700 g
Outdoor housing IP67: 70 x 295 x 170 mm

POWER REQUIREMENTS

- > Power consumption: below 3.2W
- > -48VDC connector (-36 -72VDC)
- > Molex mini-fit 4-pins connector

SALES CODES

- > **180913** Crocus SHDSL indoor repeater
- > **180914** Crocus SHDSL outdoor repeater

▼ CROCUS SHDSL REPEATER OUTDOOR & INDOOR HOUSING

