

CROCUS

Crocus SHDSL G.703 & Crocus SHDSL RS530



The Crocus SHDSL G.703 and Crocus SHDSL RS530 are manageable base band modems offering respectively G.703 2 Mbps and serial access over unconditioned unshielded twisted-pair cable.

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These desktop modems use the SHDSL technology to extend G.703 and serial interfaces in the local loop.

The SHDSL is based on the TC-PAM (Trellis Coded Pulse Amplitude Modulation) modulation, which guarantees higher speeds and longer loop performance. It also guarantees spectral compatibility with legacy and ADSL transmission systems in the same cable bundle.

The units can be used in a point-to-point configuration, or can be used with a central solution based on card-nest 4 (CN4) or the 2300.

The modems are available in 1 and 2 pair versions. The two pair version offers either higher speeds or longer distances.

The Crocus SHDSL G.703 offers unframed G.703, E1 and fractional E1 services to the user. For fractional E1 services the line speed can be reduced to cover extended distances.

The Crocus SHDSL RS530 offers serial RS530 interface for interface speeds between 64 kbps and 2,3 Mbps (1 pair version) or 4,6 Mbps (2 pair version). Other synchronous serial interfaces V35, X21, V36 and V24 are available through conversion cables.

The Crocus SHDSL G.703 and Crocus SHDSL RS530 are available as a locally or remotely powered (RP) unit. The remotely powered unit can also be locally powered at -48 VDC directly or by 230 Vac through an external power adapter.

The unit is designed for integration into demanding network environments and can be controlled by the complete set of network maintenance and management tools as they are described in this catalogue.

FEATURES AND BENEFITS

- High-speed baseband modem for use on a single or dual unshielded twisted copper pairs
- Based on the G.SHDSL standard for higher speeds and longer loop ranges
- Fixed G.703/G.704 (120 and 75 Ohm) or serial RS530 interface
- Adapter cables for V.35, V.36 (RS449), RS530, V.24 (RS232) and X.21
- Variable line-transmission rates for highest possible reach
- Local or remote powered units available
- Advanced maintenance and management options

CROCUS SHDSL G.703 & CROCUS SHDSL RS530 SPECIFICATIONS

Line interface

- Coding: TC PAM, compliant ITU-T G.991.2 Annex A&B (G.SHDSL), ETSI TS 101524
- Handshaking: compliant G.994 (automatic speed negotiation) or fixed speed
- Single pair or two pair line access
- Connector: RJ45 with plug-in converter for RJ11
- Impedance: 135 Ohm
- Line speeds:
 - Single pair: N x 64 kbps (N = 3 ... 36)
 - Two pair: N x 128 kbps (N = 3 ... 36)
- 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

G.703 interface (G.703 models only)

- User speed: (F)E1 2 Mbps (co-directional)
- Connector:
 - BNC (75 Ohm)
 - RJ45 (120 Ohm), DCE
- Unframed, framed and fractional operation (1 ... 31 time slots)
- Clocking: internal, external

RS530 interface (RS530 models only)

- Applicable standards: ITU-T V10, V11, RS530, RS530A
- Connector: female DB25 (ISO2110), compliant RS530, RS530A DCE
- Through adapter cable: V.35, V.36 (RS449), X.21, V.24 (RS232)
- User speeds:
 - Single pair: N x 64 kbps (N = 1 ... 36)
 - Two pair: N x 128 kbps (N = 1 ... 36)
- Clocking: internal, external, slave receive

Control interface

- Applicable standards: ITU-T V.24, V.28, EIA/TIA 574
- DCE signals: RXD, TXD, SGND
- Connector: female DB9 (EIA/TIA 574)

Front panel Indications

- PWR: Power- differentiates between local and remote powering
- SERIAL: indicates the state of the connected DTE
- DCD 109 / 1: first line pair status
- DCD 109 / 2: second line pair status

Local maintenance tools

- Direct connection for VT100 local console (command line interface or interactive interface)
- Direct connection for TMA (Maintenance Application)

Network management tools

- Manageable over the line
- Integration in the TMA management suite
- Insertion/extraction of management channel in G.703 time-slot

Mechanical data (H x W x D)

- 45 x 220 x 235 mm
- Weight: 750 g

Power requirements

- 12 Vdc / 1 A with external power adapter
- 48 Vdc / 130 mA (only on RP models)
- Remote powering (only on RP models)

Sales Codes

- > 181080 Crocus SHDSL TT G703 230 Vac (1 pair, local powering)
- > 178715 Crocus SHDSL TT G703 RP (1 pair, dual powering)
- > 196336 Crocus SHDSL 2P TT G.703 230 Vac (2 pair, local powering)
- > 178713 Crocus SHDSL 2P TT G703 RP (2 pair, dual powering)
- > 181082 Crocus SHDSL TT RS530 230 Vac (1 pair, local powering)
- > 178716 Crocus SHDSL TT RS530 RP (1 pair, dual powering)
- > 196338 Crocus SHDSL 2P TT RS530 230 Vac (2 pair, local powering)
- > 178714 Crocus SHDSL 2P TT RS530 RP (2 pair, dual powering)

More sales codes are available for other local powering options

