



ORDERING

SRM-31S/*

Synchronous 2-wire Short Range Modem

- * Specify DTE interface:

V24 for V.24/RS-232

V35 for V.35

P/S-AC/5/1200

DC adapter for 100 to 240 VAC

SRM-31S

Synchronous 2-wire Short Range Modem



data communications

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Specifications are subject to change without prior notice.

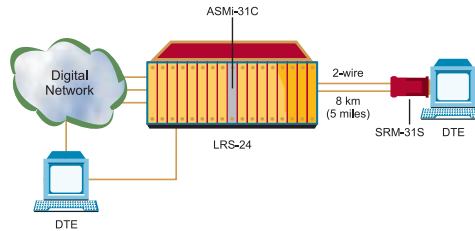
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FEATURES

- Synchronous
- 2-wire full duplex
- Transmission range up to 8 km
- I-DSL technology and 2B1Q line coding
- Operates opposite ASM-31, ASMi-31 and HS-U modules of MP-2000 and MP-2100
- V.24/RS-232 or V.35 digital interfaces
- Diagnostic loopbacks according to ITU V.54
- Selectable data rates:
1.2 kbps–128 kbps
- Configuration download option when working opposite ASMi-31
- LED indicators
- High voltage line protection in compliance with ITU K.21

APPLICATION



DESCRIPTION

- SRM-31S, Synchronous Short Range Modem, operates in full duplex over 2-wire unconditioned lines (twisted pair) at selectable rates from 1.2 kbps up to 128 kbps.
- SRM-31S uses I-DSL technology and 2B1Q line coding. It provides an operating range of up to 8 km, independent of the data rate. An adaptive equalizer provides noise immunity and high performance over mixed gauge or multipair cables. The modem can pass two control signals end-to-end with no interference with data transmission.
- SRM-31S is a miniature version of ASM-31. External switches on the bottom of the unit enable easy configuration of the product. Five LED indicators show the status of the unit. The modem requires an external power source via a DC adapter (see *Ordering*).
- SRM-31S can operate opposite ASM-31, ASMi-31, and the HS-U module of Megaplex-2000 and Megaplex-2100. The modem can be configured remotely, and diagnostics can be activated from the other end.
- SRM-31S features diagnostic capabilities that include implementation of local and remote loopbacks.



SPECIFICATIONS

Line Interface

- **Transmission Format**
Synchronous
- **Transmission Line**
2-wire unconditioned dedicated line (twisted pair)
- **Transmission Mode**
Full duplex 2-wire operation
- **Transmission Level**
Up to 14 dBm
(according to ISDN "U" interface)
- **Line Coding**
2B1Q
Line code and transmission specifications comply with ANSI T1.601, 1988
- **Line Connector**
3-port terminal block
- **Transmission Range**
Up to 8 km over 24 AWG
- **Impedance**
135Ω
- **Line Protection**
In compliance with ITU K.21

DTE Interface

- **Type**
 - V.24/RS-232
 - V.35 via adapter cable (see *Ordering*)
- **Connectors**
V.24/RS-232: 25-pin D-type, female
V.35: 34-pin, female, via a cable adapter
- **Data Rates**
1.2, 2.4, 4.8, 9.6, 16, 19.2, 32, 38.4, 48, 64 or 128 kbps

General

- **Timing Elements**
 - Internal: derived from the internal oscillator
 - External: derived from the digital interface
 - Loopback: derived from the line received signal
- **Diagnostics**
Local loopback, remote loopback
- **LED Indicators**
LOS (red) – Loss of Synchronization
TST (red) – Diagnostic Test
RX (yellow) – Receive
TX (yellow) – Transmit
PWR (green) – Power
- **Power**
External DC adapter
5 VDC, (+10% -2%) / 500 mA (see *Ordering*)

Physical

Length: 110 mm / 4.3 in
Height: 22 mm / 0.9 in
Width: 53 mm / 2.1 in
Weight: 90g / 3.3 oz

Environment

Temperature: 0–50°C / 32–122°F
Humidity: up to 90%, non-condensing