



Datacom Networking Products

for Fiber and Copper

First Edition

LAN Transceivers
Interface Converters
Isolation Products
Short Haul Modems
Fiber Optic Products
Industrial Products
Test Equipment
Lightning & Surge Protection
Miscellaneous

Telebyte Datacom Networking Products
for Fiber and Copper

First Edition
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Welcome

Welcome to the Telebyte Datacom Networking Products Catalog for Fiber and Copper. We are pleased to present this abbreviated version of our Telebyte Datacom product line. We offer an outstanding array of interface converters, short haul modems, lightning/surge protection equipment, fiber optic products and much more.

About Telebyte, Inc.

Headquartered in Greenlawn, New York, Telebyte, Inc. is a leading manufacturer of data communications equipment for copper and fiber networks. In addition, our high-tech enterprise designs and manufactures local loop simulators. Telebyte supports a wide range of communication solutions and services including media converters, interface converters, short haul modems, and fiber optic products. Since 1983, our publicly traded company has been dedicated to leading our industry in product quality and customer service, deploying thousands of Telebyte products around the world to industry leaders such as Alcatel, Lucent, Cisco, and Intel.

Technical Support:

E-mail: support@telebyteusa.com

Model 373 - 10Base-T to MultiMode Fiber Optic Transceiver**Features**

- Extend LANs over 1 mile
- Full Duplex
- Plug and Play - no software
- Uses industry standard fiber optic cables
- Impervious to lightning and surges
- Total electrical isolation
- 10Base FL compatible

Product Description

Now you can break the distance barrier of Ethernet-based Local Area Networks and achieve total system safety from electrical interference and surges. The addition of a pair of Model 373s allows your LAN to be extended to a distance of 2 KM (over 1 mile). The full-duplex signals of the 10Base-T port are converted to optical signals and driven over fiber cables.

A group of five LEDs provide indication of Fiber Optic Link Monitor, Twisted-Pair Link Monitor, Collision, Traffic and Power. An SQE switch ensures compatibility with both old and new Ethernet adapters by allowing the user to enable or disable the SQE Heartbeat option.

To Order Use Model Number:

373 **373-220**
(220 V)

Model 374 - 10Base-T to Single-Mode Fiber Optic Transceiver**Features**

- Extend LANs over 9 miles
- Full Duplex
- Plug and Play - no software
- Uses industry standard fiber optic cables
- Impervious to lightning and surges
- Total electrical isolation
- 10Base FL compatible

Product Description

Now you can break the distance barrier of Ethernet based Local Area Networks and achieve total system safety from electrical interference and surges. The addition of a pair of Model 374s along with a pair of switching hubs allows your LAN to be extended to a distance of 14 KM (over 9 miles). The signals of the 10Base-T port are converted to optical signals and driven over fiber cables.

A group of five LEDs provide indication of Fiber Optic Link Monitor, Twisted-Pair Link Monitor, Collision, Traffic and Power. An SQE switch ensures compatibility with both old and new Ethernet adapters by allowing the user to enable or disable the SQE Heartbeat option.

To Order Use Model Number:

374 **374-220**
(220 V)

Model 285 - RS-232 to RS-422/RS-485 Interface Converter



Features

- User-Selectable RS-422 or RS-485
- User-Selectable Two- or Four-Wire RS-485
- Intelligent Control Of RS-485 Transmitter And Receiver
- TD & RD LED's
- DTE/DCE Compatible
- Data Rates Up to 64 KBPs

Product Description

The Model 285 RS-232 to RS-422/RS-485 Converter is a unique interface converter that can be configured to operate in compliance with RS-485 or RS-422 equipment, and RS-232. When operating as RS-485 the Model 285 has an "intelligent" mode which provides control of the RS-485 line. When configured to operate as an RS-232 to RS-422 interface converter, the Model 285 converts full-duplex data, TD and RD, between RS-232 and RS-422.

The Model 285 is equipped with a five-position dip switch that is used to select the following:

| | |
|--------------------|---------------------------------|
| RS-422 mode/4 wire | RS-485 mode/2 wire |
| RS-485 mode/4 wire | RS-485 mode/controlled by RT |
| 220 Ohm terminator | SRS-485 mode/controlled by data |

To Order Use Model Number:

285 **285 - 220**
(220 V)

Model 366 - RS-232 to RS-485 Two-Wire with LCD Display



Features

- DataSpy® Status Display
- Implements Low Cost LAN
- Supports 32 Users
- Uses Single Twisted Pair
- External DTE/DCE Switch
- Programmable Contention
- Selectable Termination

Product Description

The Model 366 allows the interfacing of RS-232 based equipment with networks/equipment using RS-485. Transmission and reception of data to and from the network is programmable using dip switches and the RS-232 control signals RTS (Request to Send) and CTS (Clear to Send). In order to establish an orderly flow of data on the single twisted pair, the Model 366 offers three choices of data flow control. The user must select the mode that avoids contention problems and the possible collision of data caused by two devices attempting to transmit simultaneously.

To Order Use Model Number:

| | |
|---------------------------------|---|
| 366M Male Connector | 366M-220 Male Connector (220 V) |
| 366F Female Connector | 366F-220 Female Connector (220 V) |

(All are CE Certified)

Model 253 - RS-232 to RS-422 Interface Converter

Features

- DB9 Data Port
- Compatible with PC/386/486
- Full Duplex
- Surge Protection

Product Description

Adding an RS-422 interface to a PC is now a snap. The Model 253 RS-232 to RS-422 Interface Converter does this for full-duplex signals at data rates up to 19.2 KBPS, without requiring any AC or DC power. With only TD, RD and ground, the Model 253 provides operation over 8,000 feet of twisted pair into a load of 120 Ohms. The Model 253 features a female DB9 connector, thus allowing it to be plugged directly into any one of a PC's COM ports. When using the Model 253 in this mode the DTE/DCE switch is positioned to the DCE position.

To Order Use Model Number:

253T
with Terminal Block

253P
with RJ-11

253PP2
with RJ-45

(All are CE Certified)

Model 263 - RS-232 to RS-422 Interface Converter

Features

- No AC or DC Power
- Full Duplex RJ-11 and Screws
- Surge Protection

Product Description

The Model 263 power stealing RS-232 to RS-422 Interface Converter offers the user the benefits of other Telebyte converters without requiring a power supply. With only TD, RD and Ground the Model 263 will provide operation over 8,000 feet of twisted pair into a load of 120 Ohms.

To Order Use Model Number:

263M
Male Connector

263F
Female Connector

(All are CE Certified)

Model 260 - RS-232 to RS-422 Non-Powered Interface Converter



Features

- Full Duplex
- No AC or DC Power
- DB-25 for Both Ports
- Surge Protection

Product Description

Adding an RS-422 interface to any system is now easy. The Model 260 RS-232 to RS-422 Non-Powered Interface Converter does this for full-duplex signals at data rates up to 19.2 KBPS, without requiring any AC or DC power. Unique power conversion circuits create the necessary operating voltages from the RS-232 Transmit Data signal. With only TD, RD and ground, the Model 260 provides operation over 8,000 feet of twisted pair into a load of 120 Ohms. Both DB-25 connectors, the RS-232 port and the RS-422 port, are male. The RS-232 port follows conventional wiring with TD, RD and Ground on pins 2, 3 and 7. The RS-422 port follows EIA-530 wiring with Transmit Data on pins 2 and 14, and Receive Data on pins 3 and 16. Signal Ground appears on pin 7 of the RS-422 connector.

To Order Use Model Number:

260
CE Certified

Model 63-2SA RS-232 to RS-422 Interface Converter



Features

- Full-Duplex Signals
- DTE/DCE Switch
- TD and RD Indicators
- DC to 115.2 KBPS

Product Description

The Model 63-2SA provides a hardware conversion for full-duplex signals between RS-232 and RS-422 I/O ports. Because the RS-232 port may look like a computer or a modem, the converter is equipped with a DTE/DCE selector switch. The Model 63-2SA will couple any RS-232C port with any RS-422 device, or two RS-232 devices over a greater distance when using two 63-2SAs back to back as line drivers.

The 63-2SA contains TD and RD LEDs to allow rapid verification of equipment performance. A programmable cable terminator provides the flexibility of mating with various cables.

To Order Use Model Number:

63-2SA

63-2SA-220
(220 V)

Model 65A - RS-232 to Current Loop Converter



Features

- Active/Passive Loops
- 20 or 60 mA Operation
- DC To 19.2 KBPS
- Half/Full Duplex
- Optically Isolated
- DTE/DCE Selectable

Product Description

The Model 65A is a small, versatile, RS-232 to Current Loop Converter for use with teletypes or computers providing local terminal input via a 20 mA (or 60 mA) current loop. The Model 65 includes a wall-mounted transformer and internal power supply circuitry.

The Model 65A provides switch selection of all operating modes including:

- Half Duplex - Passive Loop
- Half Duplex - Active Loop
- Full Duplex - Passive Loop
- Full Duplex -Active Loop

An I/O selection switch is included to accommodate both DTE and DCE devices.

To Order Use Model Number:

65A **65A-220**
 (220 V)

**Models 62-1 & 62-2
RS-232 to EIA-530 Interface Converter**



Features

- Supports Ten Category I & Three Category II Circuits
- Full EIA-530 & RS-422 Compliance
- DTE & DCE Models
- Meets MIL-STD-188-114 Type 1/2
- Up to 256 KBPS Data Rate

Product Description

Conversion between RS-232 and EIA-530 is accomplished by the Models 62-1 and 62-2. These devices provide conversion for the entire EIA-530 interface which includes ten Category I circuits and three Category II circuits. The 62-1 includes an RS-232 port that interfaces to a DTE and the 62-2 is designed to interface to a DCE RS-232 port. The electrical interface of the EIA-530 port fully complies with RS-422. The Category I signals are differential and the Category II signals are single ended. The Models 62-1/62-2 fully comply with the signal requirements of MIL-STD-188-114, Type 2.

Each of these devices is powered by the Model 62-4PS wall-mounted power supply with eight-foot line cord, fully connectorized using a mini-DIN connector.

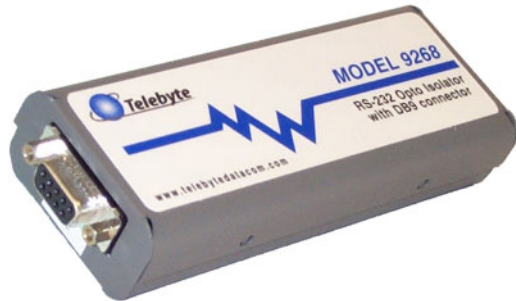
To Order Use Model Number:

62-1
RS-232 DTE Devices

62-4PS
Power Supply

62-2
RS-232 DCE Devices

62-4PS-220
Power Supply (220 V)

Model 9268 - RS-232 Opto Isolation Module with DB9 Connectors**Features**

- DB9 Interface
- Total Electrical Isolation up to 2500 VAC
- Eliminates Noise and Ground Loop Problems
- Use for Data and Control
- Data Rates up to 115 KBPS
- No Power Required

Product Description

Ensure clean data transmission and reception between two devices by installing Telebyte Model 9268 Opto Isolation Module with DB9 Connectors. For applications ranging from testing laboratories to factory floors, isolation is a critical component in data communications environments. Minimize the occurrence of data errors, voltage spikes and system faults while providing full-duplex, optically-isolated signal paths for both TD and RD, and a control signal pair selected by internal jumpers (CTS, RTS, DCD, DTR).

The Model 9268 protects against ground loops between devices that use different power sources, generate dissimilar ground currents or produce noisy signals for data rates up to 115 KBPS. Equipped with a standard DB9 interface for direct connection to the latest computer hardware, the Model 9268 is designed to protect against these problems in a smaller form factor than 25-pin serial connections.

To Order Use Model Number:

9268

Model 269 - RS-232 Opto Isolation Module**Features**

- Provides Optical Isolation up to 4000 VAC
- Complies with IEC 601-1/2
- Requires No External Power

Product Description

The Model 269 is a compact RS-232 to RS-232 opto isolation module that complies with the IEC requirement for medical electrical equipment (i.e., withstanding 4000 Volts AC for one minute). The Model 269 provides this level of isolation for TD, Transmit Data, RD, Receive Data, and Ground. This capability is further enhanced by not requiring any external AC or DC power. The Model 269 derives its power from the transmit data signals applied to each port.

The primary RS-232 port is a DB-25 male connector. In addition, the primary port may be configured as a DTE or DCE device. The secondary port is configured in an RJ-12 six-position modular jack with pins 3, 4, and 5 being Transmit Data, Receive Data, and Isolated Ground respectively.

To Order Use Model Number:

269
CE Certified

Model 268 - RS-232 Opto Isolation Module**Features**

- Total Electrical Isolation
- Eliminates Noise Problems
- Eliminates Ground Loops
- Use for Data & Control
- UL Components

Product Description

The Model 268 Opto Isolation Module provides a communications link that has no electrical connections from one port to the other. Isolation is an important consideration if a system uses different power sources, has noisy signals or must operate at different ground potentials. In addition to opto isolation, the Model 268 incorporates micro power DC-to-DC converters that generate the necessary operating voltages. There are two sets of these circuits, one for each port. The Model 268 will operate even if only TD and RD are connected. The DCE port is implemented with a DB-25 male connector while the DTE port uses a female DB-25 connector. The case is fabricated from aluminum and is not connected to either port.

To Order Use Model Number:**268**

CE Certified

Model 201 - RS-232 Auto Powered Line Driver**Features**

- Operates with only Pins 2(TD), 3(RD), & 7(GND)
- Screw Terminals and RJ-11
- DTE/DCE Switch
- Built-in Surge Protection
- Male or Female RS-232
- 19.2 KBPS, Full Duplex, 2.1 Miles

Product Description

The Model 201 RS-232 Auto Powered Line Driver requires only TD, RD, and signal ground for power and full-duplex operation up to 19.2 KBPS. The Model 201 is equipped with screw terminals and an RJ-11 connector to offer the user a choice of termination for the four-wire line. Future changes in site wiring are, therefore, easily accommodated. The DTE/DCE switch allows reversing of pins 2 and 3 of the RS-232 connector to accommodate computers, terminals and multiplexers. Surge protection for the four-wire line is also built in.

To Order Use Model Number:**201M**
Male Connector**201F**
Female Connector

(All are CE Certified)

Model 209 - RS-232 Micro Line Driver - DB9 Connector



Features

- Compatible with PC
- 386/486 Pentium COM Ports
- Full Duplex to 19.2 KBPS
- No AC or DC Power Screw
- Terminals or RJ-11
- Small Size

Product Description

The Model 209F offers all the features of the Model 201 in a package that is approximately one third the volume. Measuring 1.3" W x 3" L x .85" H, the Model 209F incorporates a female DB9 connector so that it can be plugged directly into any one of the PC's serial COM ports. The 209F and the 201 are fully compatible with each other at the line side. The Model 209F can be ordered with either screw terminals or an RJ-11 connector; specify 209FT for screw terminals or 209FP for RJ-11 modular phone connector. The Model 209 contains a DTE/DCE switch to reverse pins 2 and 3 of the DB9 connector.

To Order Use Model Number:

209FT
Female Connector - Screw Terminals

209FP
Female Connector - Modular Phone Connector

209FPP2
RJ-45 Female Connector

(All are CE Certified)

Model 227 - RS-232 High-Speed Line Driver with LCD Display



Features

- DataSpy® Status Display
- Full Duplex to 5 Miles
- Async, DC to 115.2 KBPS
- Powered by TD
- Powered by RJ-11 and Screw Terminals
- Built-in Surge Protection
- Fully Compatible with Model 221 up to 19.2 K

Product Description

The Model 227 RS-232 High-Speed Line Driver with LCD Display provides full-duplex transmission from DC to 115.2 KBPS over two twisted pairs. The Model 227 includes Telebyte's unique DataSpy LCD display that provides the user with important status information regarding the operation of the device. This LCD operates from less than one milliwatt of power and does not affect the operation of the Model 227.

The Model 227 is offered with a male or female RS-232 connector. The four-wire line interface is a five-position terminal block and an RJ-11 modular phone connector. The four-wire line includes built-in surge protection which uses pin 1, Frame Ground, as the path for suppressing surges.

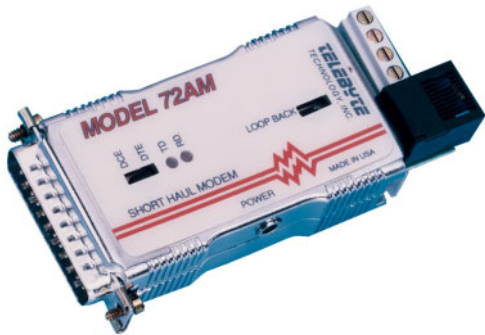
To Order Use Model Number:

227F
Female Connector

227M
Male Connector

(All are CE Certified)

Model 72A - Optically-Isolated Line Driver



Features

- DC TO 19.2 KBPS
- Optically Isolated
- TD & RD LEDs
- Loopback Switch
- Built-In Surge Protection
- Male or Female Connectors
- Screw Terminals and RJ-11

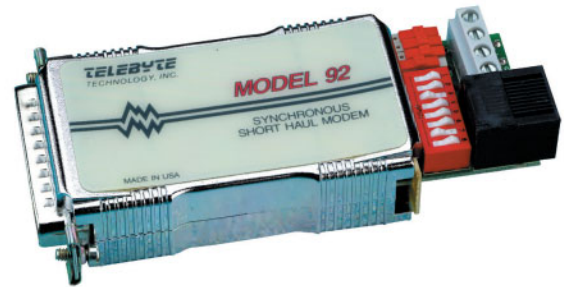
Product Description

The Model 72A Optically-Isolated Line Driver links RS-232 based devices over extended distances. It provides optical isolation and has built-in verification of operation using a loopback switch. The Model 72A communicates via four-wire cable with another 72A, 72 or the rack-mounted Model 75. The Model 72A is designed for asynchronous operation over two twisted-pair, non-loaded, metallic (DC continuity) cable up to 19.2 KBPS. Each modem is equipped with Transmit Data and Receive Data LEDs to simplify installation and troubleshooting. Verification of modem operation is simplified using the built-in loopback switch. A second switch reverses pins 2 and 3 of the RS-232 connector for interfacing with either DCE or DTE devices. The Model 72A is available with male or female DB-25 connectors.

To Order Use Model Number:

- | | |
|---------------------------------|---|
| 72AM Male Connector | 72AM-220 (220 V) CE Certified |
| 72AF Female Connector | 72AF-220 (220 V) CE Certified |

Model 92 - RS-232 Sync-Async Line Driver



Features

- Synchronous Transmission at 1.2 to 19.2 KBPS
- Async Transmission 0 to 19.2 KBPS
- Clocking from Internal, External or Received Data
- No AC or DC Power
- 3 Miles at 19.2 KBPS
- Screw Terminals and RJ-11

Product Description

The versatile Model 92 RS-232 Sync-Async Line Driver offers a wide variety of features. Full async and sync performance in one unit offering full-duplex operation up to 19.2 KBPS. The user-selectable clocking options provided are among the most versatile available - internal from a crystal clock, external from the DTE, or derived from the received data.

This modem includes special circuitry to allow the unit to derive its power from the modem interface signals. The modem is supplied with a male DB-25 connector and a four-position terminal block and RJ-11 for connection to the line. The Model 92 is compatible with any RS-232 DTE port, and on the line side with the Model 77 rack-mounted sync short haul modem or another Model 92.

To Order Use Model Number:

92

Model 224 - RS-232 Line Driver with Control Signals and LCD Display



Features

- DataSpy® Status Display
- Full Duplex & Handshake
- Loopback & DTE/DCE Switch
- DC to 19.2 KBPS
- Supports DTR & DCD
- Compatible with Rack-Mounted Model 79
- Optically Isolated

Product Description

The Model 224 RS-232 Line Driver with Control Signals and LCD Display provides for transmission of a handshake signal in each direction and communication of full-duplex data up to 19.2 KBPS - all while ensuring complete optical isolation. The Model 224 includes Telebyte's unique DataSpy LCD display, that provides the user with important status information regarding the operation of the device. The LCD is useful during the installation and checkout and whenever there are suspected problems. The graphic display presents the user with live status of the transmit and receive data signals, TD and RD, and control signals, CTS, RTS, DSR, DCD and DTR.

To Order Use Model Number:

| | |
|---------------------------------|---|
| 224M Male Connector | 224M-220 (220 V) CE Certified |
| 224F Female Connector | 224F-220 (220 V) |

Model 203 - RS-232 Two-Wire Groundless Line Driver



Features

- Full Duplex on Single Pair
- DC to 19.2 KBPS
- Does Not Require Common Ground
- High Common Mode Rejection
- No Power Required

Product Description

The Model 203 uses a fully differential, simultaneous, drive/receive technique on a single pair. The superior properties of differential data transmission have long been known and are used in Telebyte four-wire products. Now these same advantages are available on two-wire links. The Model 203 provides flawless operation up to 19.2 KBPS over distances of 2 miles. The 203 incorporates low power and advanced power generating circuitry to allow maximum performance while deriving its operating power from the transmitted data line. Additional features of the Model 203 include a DTE/DCE switch to allow the 203 to be easily used on computers, terminals, and multiplexers.

The user interface is a DB-25 standard RS-232 connector available in male or female gender. The line side interface supplied on the 203 is a two-position terminal block and RJ-11 modular jack.

To Order Use Model Number:

| | |
|-------------------------------|---------------------------------|
| 203M Male Connector | 203F Female Connector |
|-------------------------------|---------------------------------|

(All are CE Certified)

Model 225 - RS-232 Transformer Isolated Multi-Drop Line Driver with LCD Display



Features

- DataSpy® Status Display
- Multi-Dropped or Point to Point
- Data Rates to 19.2 KBPS
- Transformer Isolated
- Four-Wire Full or Half Duplex
- Controlled or Continuous Carrier
- No AC Power
- Screw Terminals & RJ-11
- Gender Changer included

Product Description

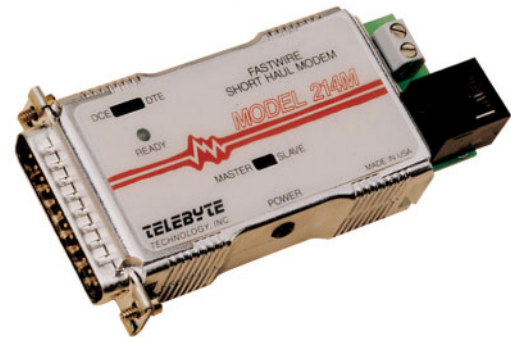
The Model 225 RS-232 Transformer Isolated Multi-Drop Line Driver with LCD Display supports a multi-drop environment typically used in polled networks using controlled carrier. This feature can be strapped constantly on or it can be controlled by the Request-To-Send, RTS, signal. The Model 225 operates at any data rate up to 19.2 KBPS with a range of 4 miles. DTE/DCE switching allows the Model 225 to operate in all configurations. The Model 225 incorporates line coupling transformers to provide isolation between communicating modems and protection against AC and DC surges on the four-wire line. The Model 225 is available with either a male or female DB-25 connector. This feature-rich product includes Telebyte's unique DataSpy LCD display that provides the user with operation status information.

To Order Use Model Number:

225M **225F**
 Male Connector Female Connector

(All are CE Certified)

Model 214A - Transformer Isolated Line Driver



Features

- Full Duplex on Single Pair
- 0 to 38.4 KBPS
- Adaptive Echo Cancellation
- ISDN Technology
- Up to 3 Miles
- Transformer Isolation
- Male or Female Version

Product Description

The Model 214A allows full-duplex transmission up to 38.4 KBPS over a single twisted pair. Scrambled data is differentially encoded making the data on the line polarity independent. The time base for both modems is referenced to a highly stable crystal clock and is phase locked to the received data stream. The signaling rate between Model 214As is 160 KBPS and is maintained over distances of 3 miles on 22-gauge wire, 1.5 miles on 26-gauge wire and at any full-duplex data rate from 0 to 38.4 KBPS. Transformer coupling to the line provides the advantages of ground loop elimination and increased resistance to common mode noise. The Model 214A is available with a male or female DB-25 connector and both an RJ-11 and screw terminals for the line. Power is supplied from a small wall-mounted transformer.

To Order Use Model Number:

214AM **214AM-220**
 Male Connector (220 V) CE Certified

214AF **214AF-220**
 Female Connector (220V) CE Certified

Model 271 - RS-232 Fiber Optic Auto Powered Line Driver

Features

- Full Duplex to 56 KBPS
- 2 Kilometers on 62/125 Fiber
- Total Electrical Isolation
- Eliminates Noise Problems
- ST Connectors
- No Power Required

Product Description

The Model 271 provides feature-packed performance and reliability for data transmission over glass fiber. Fiber optic transmission offers the benefits of wide bandwidth, immunity from EMI/RFI interference, operation in harsh/hostile environments and secure data transmission. The Model 271 RS-232 Fiber Optic Auto Powered Line Driver provides full-duplex, asynchronous communications over two fibers. Fiber cable length can be up to 2 kilometers with data rates as high as 56 KBPS. The Model 271 has been optimized for 62/125 fiber cables. Other sizes can also be used.

To Order Use Model Number:

| | |
|---|---|
| 271AM Male Connector | 271AM-220 (220 V) CE Certified |
| 271AF Female Connector | 271AF-220 (220V) |
| 271M/ST Male ST Connector CE Certified | 271F/ST Female ST Connector CE Certified |

Model 9271 - RS-232 Fiber Optic Auto Powered Line Driver with DB9 Connector

Features

- DIN Rail Mounted
- Standard DB9 Interface
- RS-232 Data Interface
- DTE/DCE Switch
- Half or Full Duplex to 56 KBPS
- 2 Kilometers on 62/125 Fiber
- Total Electrical Isolation
- Eliminates Noise Problems
- ST Connectors
- No Power Required

Product Description

The Model 9271 RS-232 Fiber Optic Auto Powered Line Driver features a standard DB9 interface for maximum performance and reliability of data transmission over glass fiber, eliminating the need for serial to nine-pin adapters. In addition, it brings effective data communications to manufacturing environments. It can be installed in applications requiring very high data transmission rates, offers resistance to Electromagnetic Interference (EMI), and it provides isolation from lightning-induced current surges and ground loops. The unit employs an RS-232 data interface, can achieve 56 KBPS asynchronously and operates in either half- or full-duplex modes over dual fibers up to 2 km in length.

To Order Use Model Number:

| | |
|----------------------------------|-----------------------------|
| 9271 | |
| 9271A with Transformer | 9271A-220 (220 V) |

Model 8225 - RS-232 Multi-Dropped Line Driver

Features

- Multi-Dropped or Point-to-Point
- Data Rates to 38.4 KBPS
- Transformer Isolation
- Four-Wire Full or Half Duplex
- Controlled or Continuous Carrier
- 6 KM Range on 24 AWG

Product Description

The Model 8225 provides multi-drop capability as typically used in polled or controlled carrier applications, for those networks that use a master controller and many slaves. These features, along with the wide operating temperature range, make the Model 8225 an ideal candidate for the factory environment.

The Model 8225 operates at any data rate up to 38.4 KBPS with a range of 3.75 miles (6 km) on 24 AWG wire. DTE/DCE switching allows the Model 8225 to operate in all configurations.

The Model 8225 incorporates line coupling transformers to provide isolation between communicating modems and protection against AC and DC surges on the four-wire line. Line connection is via a terminal block. The Model 8225 data interface features a female DB9 connector.

To Order Use Model Number:

8225

Model 8277 - RS-232, RS-422, or RS-485 to Fiber Optic Line Driver

Features

- DIN Rail Version of Model 277
- Point to Point or Ring (to 10 Units)
- Data Interface Selectable RS-232, RS-422 or RS-485
- Data Rate to 1 MBPS for RS-422 or RS-485

Product Description

The Model 8277 is a unique asynchronous fiber optic modem whose optical interface can operate in either point-to-point or ring (daisy-chain) configurations and whose electrical interface can also operate in point-to-point or multi-drop configurations - depending on the user selected interface.

The Model 8277 electrical interface is switch selectable between RS-232, RS-422 and RS-485. Switch selection enables data to flow from the electrical interface to the optical transmitter or to be controlled by the Request To Send, RTS, line.

The 8277 is supplied with a power cord for the DC input. Wall-mounted adapters are optional.

To Order Use Model Number:

8277

CE Certified

**Model 8322 - RS-232 to RS-485
Optically-Isolated Interface Converter**



Features

- Four-Wire Master/Slave Operation
- Active Mode Control via RTS or Data
- Opto Isolation
- Built-in Power Supply
- Internal Microcontroller
- 38.4 KBPS Data Rate
- DIN Rail Mounted
- Programmable Terminations

Product Description

The Model 8322 RS-232 to RS-485 Optically-Isolated Interface Converter allows information exchange in half-duplex mode over two twisted pairs. It converts RS-485 signals to RS-232 signals, bidirectionally, on the DIN rail mounting system. This conversion is accomplished while maintaining optical isolation between the ports. The Model 8322 extends RS-485 links to a maximum limit of 3,300 ft (or 1 km) at any data rate up to 38.4 KBPS.

The Model 8322 includes TD and RD LEDs as well as a built-in power supply. The power input is standard for 110 V, 60 Hz or 220 V, 50 Hz as an ordering option. All the inputs and outputs are via screw terminals located on the top surface of the device.

To Order Use Model Number:

8322 **8322-220**
 (220 V)

(All are CE Certified)

**Model 8323 - RS-232 to RS-422
Optically-Isolated Interface Converter**



Features

- Four-Wire, Full-Duplex Operation
- Opto Isolation
- Built-in Power Supply
- 115.2 KBPS Data Rate
- DIN Rail Mounted
- Programmable Terminations

Product Description

The Model 8323 RS-232 to RS-422 Optically-Isolated Interface Converter allows information exchange in full-duplex mode over two twisted pairs. It converts RS-422 signals to RS-232 signals, bidirectionally, on the DIN rail mounting system. This conversion is accomplished while maintaining optical isolation between the ports. Model 8323 extends RS-232 links to a maximum limit of 3,300 ft (or 1 km) at any data rate up to 115.2 KBPS.

The Model 8323 includes TD and RD LEDs as well as a built-in power supply. The power input is standard for 110 V, 60 Hz or 220 V, 50 Hz as an ordering option. The inputs and outputs are via screw terminals located on the top and side surface of the device.

To Order Use Model Number:

8323 **8323-220**
 (220 V)

(All are CE Certified)

**Model 8324 - RS-232 to RS-485
Optically-Isolated Interface Converter**



Features

- Break 32 Node Limit on RS-485
- Two-Wire Master/Slave Operation
- Active Mode Control via RTS or Data
- Opto Isolation
- Built-in Power Supply
- Internal Microcontroller
- 38.4 KBPS Data Rate
- DIN Rail Mounted
- Programmable Terminations

Product Description

The Model 8324 RS-232 to RS-485 Optically-Isolated Interface Converter allows information exchange in half-duplex mode over one twisted pair. It converts RS-485 signals to RS-232 signals, bidirectionally, on the DIN rail mounting system. This conversion is accomplished while maintaining optical isolation between the ports. Model 8324 allows for the extension of RS-485 links to a maximum limit of 3,300 feet or 1 km at any data rate up to 38.4 KBPS.

The Model 8324 includes TD and RD LED's as well as a built-in power supply. The power input is standard for 110 V, 60 Hz or 220 V, 50 Hz as an ordering option. All the inputs and outputs are via screw terminals located on the top surface of the device.

To Order Use Model Number:

8324
CE Certified

**Model 8365 - RS-232 to RS-422/RS-485
Multimode Interface Converter**



Features

- DIN Rail Mounted
- User-Selectable RS-422 or RS-485, Two- or Four-Wire
- TD and RD LEDs
- Intelligent Control of RS-485 Transmitter and Receiver
- DTE/DCE Compatible
- Data Rates Up to 230 KBPS

Product Description

The Model 8365 Multimode interface converter allows operation in compliance with RS-485 or RS-422 equipment, and RS-232. When operating as RS-485 the Model 8365 has an "intelligent" mode which provides control of the RS-485 line.

Operating as an RS-232 to RS-422 interface converter, the Model 8365 converts full-duplex data, TD and RD, between RS-232 and RS-422.

As an RS-232 to RS-485 converter the Model 8365 can be configured as a two-wire or a four-wire converter. For RS-485 half-duplex protocol, the Model 8365 can be configured to control its data flow in one of two ways - either RTS, or TD data.

The 8365 is supplied with a power cord for the DC input. Wall-mounted adapters are optional.

To Order Use Model Number:

8365

Model 905 - Protocol Analyzer/Data Line Monitor



Features

- Small, Portable Unit
- Works with all PCs via Enhanced Parallel Port
- Includes RS-232/422/485 & V.35 Interfaces
- Monitors & Emulates X.25, HDLC, Async & Bisync
- Built-in Bert Tester
- Split Screen Decode of X.25 & SDLC
- State Machine Programming
- Applications Interface Programmable
- Menu Driven
- Time Stamping

Product Description

The Model 905 Protocol Analyzer/Data Line Monitor is the latest addition to Telebyte's line of powerful and flexible PC-based protocol analyzers. The Model 905 is a high-performance data line monitor, bit error rate tester and emulator in a small configuration that supports all PCs. The combination of a 905 and PC produces a powerful protocol analyzer. The Model 905 Protocol Analyzer/Data Line Monitor is an external device and does not require the user to open up a PC. The 905 installs easily by connecting the cable to the parallel port on any PC and you're ready to go. The Model 905 is equipped with a complete range of hardware interfaces including RS-232, RS-422, RS-485 and V.35. Selection of the desired interface is under program menu selection.

To Order Use Model Number:

905

905-220
(220 V)

Model 22 - RS-232 Lightning/Surge Protector



Features

- Triple Stage Protection
- Fast Response Time
- RS-422, RS-232, or TELCO Versions
- Prevents Damage to Modems, Converters, and Terminals
- Supports Four Circuits
- Available with Terminals or Modular Jacks

Product Description

The Model 22 RS-232 Lightning/Surge Protector is designed to accommodate high-voltage transients, slow them down and redirect them to a low-impedance path to earth ground. The Model 22 is a module that provides protection for four independent data communication circuits (operating at rates up to 38.4 KBPS) that may be exposed to such transients. The protection circuits incorporate three separate stages of limiting high-voltage transients: gas tubes, avalanche diodes and MOV thyristors.

To Order Use Model Number:

22

use with Short Haul Modem/RS-232

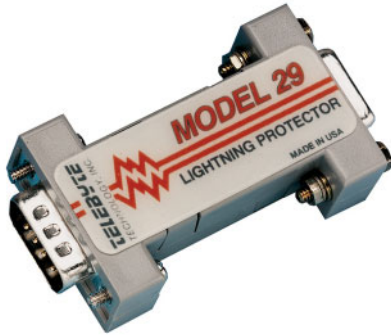
22NX

use with RS-422 - Screw Terminals Standard

22PX

Telco, 2 lines - RJ-12 Phone Jacks

(All are CE Certified)

**Model 29 - RS-232/RS-422 DB9
Lightning Suppressor****Features**

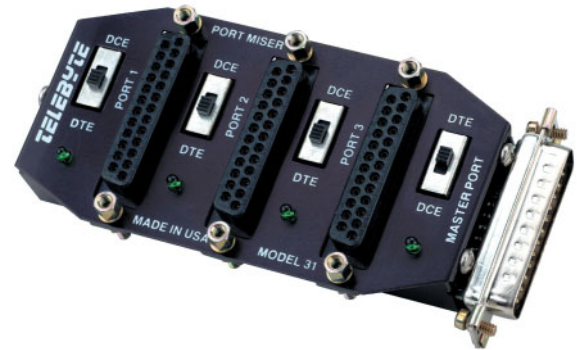
- PC 386/486 Pentium COM Ports
- Nanosecond Response
- DB9 Connectors
- Protects All Nine Lines
- Ground Stud & Wire Included

Product Description

The Model 29 contains avalanche diodes, one for each line. All diodes are returned to a ground stud. The Model 29 is provided with a two-foot ground wire and has male and female DB9 connectors. It supports RS-232 levels and is a low-cost solution to the problem of potential equipment damage from induced transients on RS-232 COM ports of 386/486 Pentium or laptop/notebook PCs.

To Order Use Model Number:

29
CE Certified

**Model 31 - Port Miser Port Sharing
Device****Features**

- Expands RS-232 Port by Three
- Up to 19.2 KBPS
- No Power

Product Description

The Telebyte Model 31 is a passive device which attaches to a modem, printer or computer and allows up to three terminals, monitors or other input devices such as bar code readers, mag stripe units and specialized key pads to be interconnected. Semiconductor circuits are utilized to provide isolation of the prime signals in the RS-232 interface. Each port has a switch associated with it for reversing pins 2 & 3 of its respective RS-232 connector. The signals that are isolated include the selected Transmit Data Line and pins 4 & 20. Each port features a Female connector. The main port consists of a DB-25 (Male) connector for connection to a modem, printer or computer. The simplicity of the device allows for quick, simple, plug-in operation.

To Order Use Model Number:

31