Multiplexers

Muxes & Sharing Devices

In This Section

Multiplexers

LOW SPEED TDM

Full Duplex, 2-Channel

Connect two sync terminals, or one async and one sync terminal, to a sync modem

- ✔ Data rates up to 19.2 kbps at the sub-channels and 38.4 kbps at the composite channel
- ✔ RS-232 composite port interface and sub-channel interface

Model 3042
Page 220

STATISTICAL MUX

Powered, 8-Channel, Async/Sync

High performance and full front panel LCD control

- ✔ Channel speeds up to 19.2 kbps
- ✔ Link speeds up to 64 kbps
- ✔ Aggregate channel input up to 76.8 kbps
- ✔ RS-232 interface on all ports

Model 3028
Page 221

MINI STAT MUX

Full Duplex, Async

Our MicroStats™ statistical multiplexers double the usefulness of your existing modems!

- ✔ Data rates up to 115.2 kbps and sub-channel data rates to 57.6 kbps
- ✔ Power drawn from main and sub-channel devices–no AC power or batteries required

Model 3032
Page 220

RS-232 TDM

Up to 8 Channels, Limited Distance

Move up to 8 channels of RS-232 data over two twisted pairs

- ✔ Simultaneous sub-channel data rates up to 19.2 kbps
- ✔ Two-pair distances up to 6,000 ft (1.8 km) between multiplexers

Models 3054, 3056, 3058
Page 222

MULTIPORT ASYNC MUX

Up to 8 Ports on a Single Link

Consolidate up to 8 asynchronous data sources onto a single synchronous WAN link or IP/Ethernet LAN connection

- ✔ V.35/X.21/T1/E1 Ethernet Composite — Connect to any sync dedicated WAN or use standard PPP or Frame Relay networks
- ✔ Up to 8 Ports on a Single Link — Multiplex up to 8 EIA-232/V.24 ports at 115.2kbps

Models 3034, 3038
Page 219

Modem/Port Sharing Devices

DIGITAL SHARING DEVICE

V.24, X.21, or RS-232/423

Share up to 8 ports (DCE or DTE) to 1 master DTE or DCE

Models 3040, 3060, 3080
Page 223

MODEM SHARING DEVICES

V.24, X.21, or RS-232/423

8 sync or async devices can share one modem in a polled environment

Models 3012, 3014, 3018
Page 224

RS-232

Three RS-232 DTEs can contend for access to one RS-232 modem

Model 3010
Page 225

MODEM SPLITTER

DB-25, Sync or Async

Lets three devices share a single modem

Models 305
Page 225

Multiport Asynchronous Multiplexers

Models 3034 & 3038

The Model 3038 IpStatmux Managed Multiport Asynchronous Multiplexer combines up to eight EIA-232/V.24 interfaces over any composite V.35, X.21, T1/E1, or Ethernet/IP port and offers the lowest-cost, most flexible solution for multiport asynchronous terminal connectivity.

Now it is easier than ever to link up multiple asynchronous terminals, hosts, and devices. Patton's Model 3038 IpStatmux Managed Multiport Asynchronous Multiplexer consolidates up to eight asynchronous data sources onto a single synchronous WAN link or IP/Ethernet LAN connection for secure, reliable, and transparent multiplexing.

The Model 3038 offers advanced network and transmission options. The integrated composite port provides a standard synchronous link connection to NTUs, DSUs or traditional WAN services. By including an Ethernet port as a composite uplink, the Model 3038 also "future proofs" your legacy equipment. Now multiplexed data can use existing LAN, WAN and Internet connections…*simultaneously*. Data security and service quality is ensured with IPSec encryption as well as packet labeling and integrated data QoS with flow-control.

Reliable data is ensured via multiple CRC-16 checks, transparent data checksums and in-order data delivery. In the event of an error, the Model 3038 automatically retransmits the data to ensure transparent and error free delivery. With user configurable flow control including software XON/XOFF, hardware RTS/CTS and combination provides optimal data transfer.

Integrated management offers both local and remote configuration, control and troubleshooting. Use the supervisory port for out-of-band access or use LAN based services such as Telnet, WEB/HTTP and SNMP. Per-port options allow for diagnostics loops, traffic statistics, review channel status and monitor ports and events. Link down, data loss and errors can be signal.

ORDERING INFORMATION

Managed High-Speed RS-232 Async. 8-port Stat Mux

3038/C/EUI: Composite V.35 Sync

3038/D/EUI: Composite X.21 Sync

3038/K/EUI: Composite E1 Sync

Managed High-Speed RS-232 Async. 4-port Stat Mux

3034/C/EUI: Composite V.35 Sync

3034/D/EUI: Composite X.21 Sync

3034/K/EUI: Composite E1 Sync

Managed High-Speed RS-232 Async. 8-port Stat Mux, 2-Pack

3038/C/EUI-2PK: Composite V.35 Sync

3038/D/EUI-2PK: Composite X.21 Sync

3038/K/EUI-2PK: Composite E1 Sync

Managed High-Speed RS-232 Async. 4-port Stat Mux, 2-Pack

3034/C/EUI-2PK: Composite V.35 Sync

3034/D/EUI-2PK: Composite X.21 Sync

3034/K/EUI-2PK: Composite E1 Sync

FEATURES & BENEFITS

- ✔ Up to 8 Ports on a Single Link—Multiplex up to 8 EIA-232/V.24 ports at 115.2kbps with individually configurable speed, flow control, echo and testing.
- ✔ V.35/X.21/T1/E1 Ethernet Composite—Connect to any synchronous dedicated WAN or lower costs using standard PPP or Frame Relay networks. Ethernet/IP can be used over any network or Internet without the expense of dedicated lines.
- ✔ Local & Remote Management—Configure and control with Web-based management, SNMP or command line supervisory port all with password protection.

SPECIFICATIONS

Terminal/Channel Ports: Serial Asynchronous start-stop • # of Ports: 8 ports (3038); 4 ports (3034) • Max Aggregate Speed: 2Mbps • Interface: CCITT V.24 (EIA-561) on 8-pin RJ-45F • Data Communication Speed: Selectable 50bps-115.2kbps; auto-speed detection up to 115.2kbps • Data Format: selectable 5,6,7, or 8 bits; 1, 1.5 or 2 stop bits, odd, even, or no parity • Flow Control: Software selectable (XON/XOFF) or hardware (RTS/CTS) in both directions • Break propagation: Transparent • EIA signal propagation: Status of local DTR signal can be propagated to the remote end • Echo: Character echo can be selectively enabled for each terminal port

Composite Port(s): Auto-sensing 10/100BaseTX MDI-X Ethernet & V.35 or X.21 • Error detection & correction: 16-bit CRC-CCITT with ARQ (automatic re-transmission on error) • Speed: selectable, serial up to 1.2bps–2Mbps, Ethernet auto detect-10/100 • Interface: DB25, V.35; DB15, X.21 • Data Encoding: NRZ or NRZI • Clock: receive clock: external; transmit clock: selectable as internal or external

Supervisory Port(s): Interface auto-sensing 10/100BaseTX MDI-X on RJ-45 or Serial RS-232 (EIA-561) on RJ-45 • Serial Comm. protocol: asynchronous start-stop • Serial Speed: 300, 1200, 4800, or 9600 bps • Serial Data format: 7/8 bits, 2 stop bits, odd/even/no parity • Echo: Optional

Commands: Set/modify/view parameters • View status • Store parameters in non-volatile memory • Copy parameters between ports • Provide local/remote loop backs on port • Establish connection between supervisory and terminal ports • Obtain statistic reports • Unit reset; individual port reset • Remote supervisory access • Enable/Disable remote access

IP Services Supported: IPv4 • RIPv1 and v2 (RFC 1058 and 2453) • ICMP redirect (RFC 792); packet fragmentation • DiffServ/ToS set or queue per header bits • Packet policing discards excess traffic • 802.1p/Q VLAN support with 4096 IDs • IPSEC AH & ESP Modes • Manual/IKE keying • AES/DES/3DES Encryption

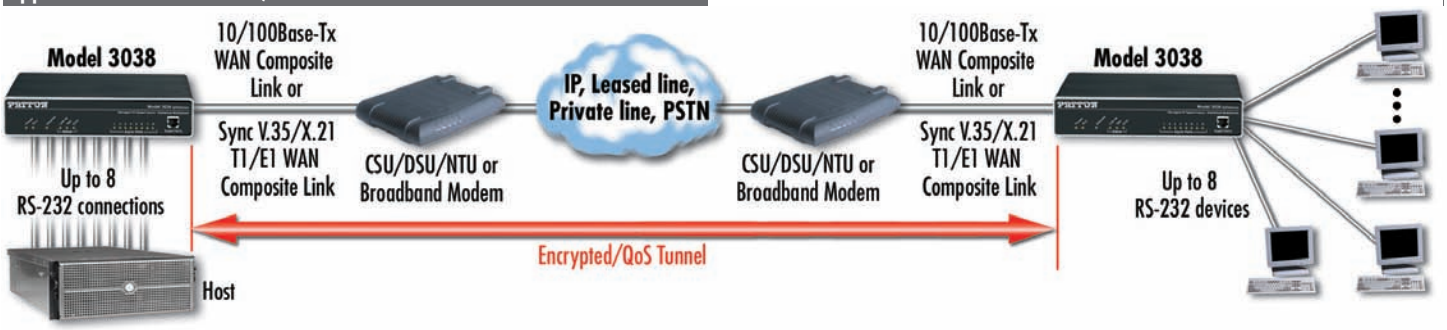
IP Connectivity Supported: X.21/V.35 (Frame Relay (8PVCs); RFC1490,FRF.12 fragmentation; LMI, Q993D, ANSI 617D, Gang of Four; PPP,PAP,CHAP,LCP,IPCP; T1/E1 (ITU-T G.703,ANSI T1.403; AMI, B8ZS, HDB3) • TCPRAW • UDP • Telnet • DHCP • NAT

Operating Environment: Temp.: 0–40°C • Humidity: 5–80% (non condensing)

System: CPU Motorola MPC859 @ 50 MHz • Memory 16MB SDRAM/4MB Flash • Power: 100–240 VAC (50/60 Hz) • Power dissipation: 4W

Compliance: EMC compliance: EN55022 and EN55024 • Safety compliance: EN 50950 • CE compliance FCC Part 15 Class A

Application—Remote Office/Branch Office Voice Extension and Access



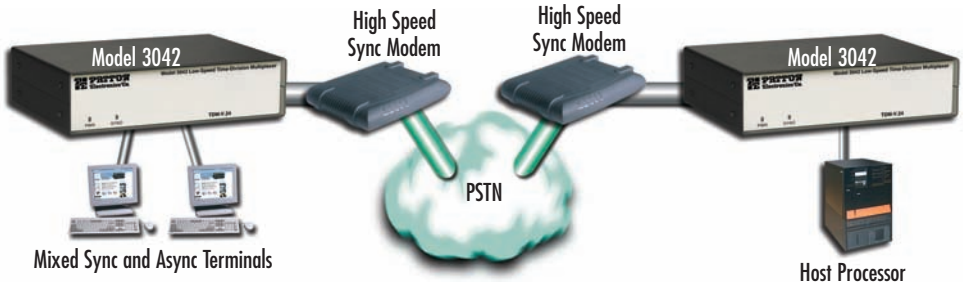
Low-Speed Time-Division Multiplexer

Model 3042

Connect two sync terminals, or one async and one sync terminal, to a high speed sync modem

The Model 3042 is a full-duplex, RS-232, two-channel, time-division multiplexer (TDM) with an independent switch-selectable V.14/V.22-compliant async-to-sync interface adapter on sub-channel 1. It provides two channels that can operate as two sync channels or as one sync and one async channel. TDM techniques are used to interleave data from the two channels into a composite channel that operates at twice the rate of the sub-channels. The composite channel is interfaced with a high speed synchronous modem via a straight-through cable.

RS-232 Two-Channel Multiplexer Application



FEATURES & BENEFITS

- ✔ RS-232 composite port interface and sub-channel interface
- ✔ Provides data rates up to 19.2 kbps at the sub-channels and 38.4 kbps at the composite channel
- ✔ Sturdy aluminum enclosure
- ✔ External wall-mounted power supply
- ✔ UL, CSA, and FCC Class A approvals

SPECIFICATIONS

Capacity: Two sync RS-232 terminals or one sync and one async RS-232 terminal multiplexed on one sync RS-232 modem
Data coding: Sync or async
Data interface: EIA RS-232-C
Data rates: Async–600 to 19,200 bps; Sync–up to 19,200 bps; Composite–38,400 bps
Power source: 110 or 220 VAC, 47 to 63Hz, 5 Watts, external wall-mounted transformer
Op. temp.: 32 to 122°F (0 to 50°C)
Rel. humidity: 5 to 90% non-condensing
Dimensions: 2.0H x 8.30W x 6.10D in. (5.08H x 21.08W x 15.49D cm)
Weight: 2.25 lbs (1.02 kg)

ORDERING INFORMATION

3042: Powered V.24 Micro TDM (TDM-V24)
3042-220 Same as 3042 except pre-configured for 220VAC

Miniature 2-Port Statistical Multiplexers

Models 3022 & 3032

Our MicroStats™ double the usefulness of your existing modems!

`These devices enable two asynchronous RS-232 devices to communicate over a single modem link, effectively doubling the capacity of two analog (V.32, V.34, etc.) modems or two short-range modems. They also allow four async RS-232 devices to be connected together over short distances (100 ft/30 m) using just a crossover cable. The devices are configured using extended AT commands (the local and remote mux can be configured from local port 1 or 2) and can perform auto-baud sensing. Hardware (RTS/CTS) and software (X-ON/X-OFF) flow control are supported.

FEATURES & BENEFITS

- ✔ Power drawn from main and sub-channel devices–no AC power or batteries required
- ✔ Model 3022 main and sub-channel data rates to 38.4 kbps
- ✔ Model 3032 main channel data rates to 115.2 kbps and sub-channel data rates to 57.6 kbps

SPECIFICATIONS

Sub-Channels Interface: RJ-45, V.24/RS-232C
Configuration: DCE
Transmission: Async, full duplex
Parity: Odd, even, mark, space, or none
Flow Control: Hardware (RTS/CTS), software (XON/XOFF)
Stop Bits: 1 or 2
Baud Rate: **Model 3022**—110, 300, 1200, 2400, 4800, 9600, 19200, 38400 bps, selectable or auto detected; **Model 3032**—110, 300, 1200, 2400, 4800, 9600, 19200, 38400 and 57600 bps selectable (auto detected up to 38.4 kbps)
Main Channel Interface: DB-25 male, DTE, V.24/RS-232-C
Transmission: Async, full duplex
Baud Rate: **Model 3022**—1.2, 2.4, 4.8, 9.6, 19.2, 38.4 kbps, selectable; **Model 3032**—2.4, 4.8, 9.6, 19.2, 38.4, 57.6 and 115.2 kbps, selectable
Word Size: 7 or 8 data bits
Flow Control: RTS/CTS or no flow control
Temp Range: 32–158°F (0–70°C)
Humidity: up to 95%, non-condensing
Dimensions: 2.7 x 2.1 x 7.4 in. (6.9 x 5.3 x 1.9 cm)

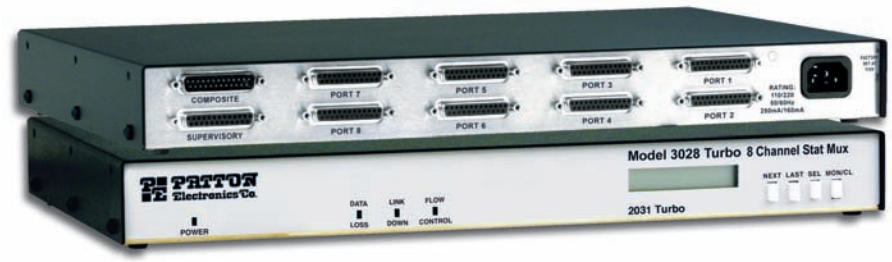
ORDERING INFORMATION

3022: 2-Channel Statistical Mux
3032: MicroStat 2-Channel Statistical Mux

Powered 8-Channel, Async/Sync Statistical Multiplexer

Model 3028

Provides high performance and full LCD configuration and management.



These multiplexers are easy to install and operate. The Model 3028 supports up to 8 RS-232 devices, and 1 composite RS-232 port.

The Model 3028 enables you to diagnose problems, check traffic statistics, review channel status and monitor events on the multiplexer and communications line—all from the front panel or a supervisory terminal. The unit combines data traffic from up to eight sources into a single high-speed composite link. Channel speeds from 75 to 19,200 bps are supported with an automatic channel speed detection (AUTOBAUD) option up to 9,600 bps. There is a 16-kbyte buffer that is shared on demand by the channels. Each channel is assigned a minimum of 372 bytes of buffer space to prevent lockout. Due to this buffering action, data rates on the channel side of the multiplexer may total several times the actual link rate without data loss. The 3028 multiplexer can handle an aggregate of 76,800 bps in constant full-duplex traffic (with flow control) and a 64,000 bps link without loss of data.

FEATURES & BENEFITS

- ✔ Model 3028 Turbo–RS-232 interface on all ports
- ✔ Eight channels synchronous or asynchronous
- ✔ Channel speeds up to 19.2 kbps
- ✔ Link speeds up to 64 kbps
- ✔ Aggregate channel input up to 76.8 kbps
- ✔ Independently configurable channels
- ✔ Configurable from the front panel or from a supervisory terminal
- ✔ Local and remote supervisory capability with password protection
- ✔ Internal linear power supply configured for either 110 or 220-VAC operation

I'm John, one of Patton's Ethernet Extenders Product Group Managers. If you do not find what you need at ***www.patton.com*** *or in this catalog please call me at* ***+1 301.975.1000, x160****. You can also send e-mail to* ***jgrant@patton.com****.*

Ask the Experts

3028 Application

SPECIFICATIONS

Number of channels: 8
Channel speeds: Up to 19.2 kbps
Link speeds: Up to 64 kbps
Max aggregate speed: 76.8 kbps
Autobaud rate detection: 150 to 9600 bps

Interface standards
EIA RS-232-C, CCITT V.24
Protocols: SDLC/HDLC or asynchronous
Link protocol: Modified HDLC, X.25 Level 2
Error control: 16-Bit CRC
Link timing: Internal: 1.2 to 19.2 kbps; External: to 64K

EIA signal propagation: RTS=DCD, DTR=DSR, BO=RI, DRSS=CTS
Op. temp.: 32–122°F (0–50°C)
Power source: 115/230 VAC, 60/50Hz, 0.16/0.08A, switchable, UL approved

Rel. humidity: 5 to 90% non-condensing
Dimensions:
1.75H x 17.0W x 11.0D in.
(4.44H x 43.18W x 18.93D cm)
Weight: 4.5 lbs (2.1 Kg)

ORDERING INFORMATION

3028 TURBO: Powered statistical multiplexer, RS-232, 8-channel

3028-220 TURBO: Same as 3028 Turbo except pre-configured for 220VAC

4, 6 & 8 Channel Limited Distance Multiplexers

Models 3054, 3056, & 3058

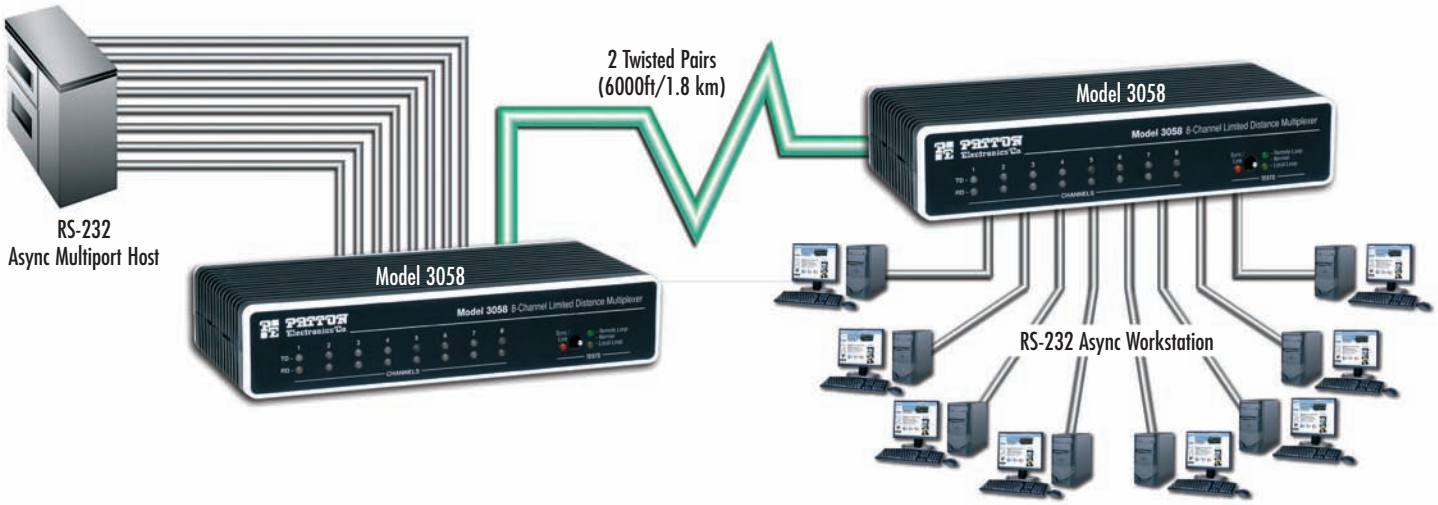
These RS-232 TDMs have Built-in Short Range Modems!

The Patton Model 305X Series limited distance multiplexers combine two functions into one handy product. First, each Model 305X Series unit is a time division multiplexer (TDM), multiplexing 4, 6 or 8 individual RS-232 devices onto a single composite channel. Second, each Model 305X Series unit is a short range modem, supporting point-to-point communication at distances up to 6,000 ft (1.8 km) over two unconditioned twisted pairs. All Model 305X Series units support end-to-end software flow control, and are equipped with local and remote loopback tests. (The Model 3054 and 3056 also support RTS/CTS hardware flow control.) In addition, diagnostic LEDs show each sub-channel's status. All data interfaces are ported to modular RJ-45 jacks.

FEATURES & BENEFITS

- ✔ Multiplexes 4, 6 or 8 async devices onto two twisted pairs
- ✔ Simultaneous sub-channel data rates up to 19.2 kbps
- ✔ Two-pair distances up to 6000 ft (1.8 km) between multiplexers
- ✔ Support for RS-232 interfaces on modular RJ-45 connectors
- ✔ End-to-end software flow control
- ✔ Hardware (RTS/CTS) flow control (Models 3054 & 3056)
- ✔ Local and remote loopback tests
- ✔ LEDs monitor TD, RD (each sub-channel), link and diagnostics
- ✔ Miniature plastic enclosure fits in tight installation spaces

Typical Application



SPECIFICATIONS

Transmission Lines: Main channel,19 to 26 AWG twisted pair; RS-232 sub-channels, flat silver cable
Interfaces: Asynchronous RS-232, ITU/CCITT
Data Rates: 0–19.2 kbps on sub-channels
Test Modes: Local loopback, remote loop
Range: 6,000 ft (1.8 km) over twisted pair 24 AWG (0.5 mm) between multiplexers; 50 feet (15.2 m) on RS-232 sub-channels
Indicators: Transmit Data, Receive Data, Link, Local Loopback, Remote Loop
Connectors: RJ-45 female on main & sub-channels
Power Supply: 9–12 VAC
Dimensions: 8.5W x 3.5L x 1.5H in. (21.6W x 8.9L x 3.8H cm)

I'm Scott, Patton's Vice President of Product Management. If you do not find the answers you need at **www.patton.com**, please call me at **+1 (301) 975-1000 x166**. You can also send e-mail to ***scott@patton.com***.

O4RDERING INFORMATION

3054/A: 4-Port, RS-232
3054/AR: 4-Port, RS-232, w/ RTS/CTS flow control
3056/A: 6-Port, RS-232
3056/AR: 6-Port, RS-232, w/ RTS/CTS flow control
3058/A: 8-Port, RS-232

Note: Available with either 120V or 230V power. Please specify.

Digital Sharing Devices

Models 3040, 3060, & 3080

Expand your systems without acquiring additional data lines or modems.

Model 3040/V35, 3060/V24, 3060/X21, and 3080/V24 Digital Sharing Devices (DSD) act as combined modem and port sharing devices. With any of these high-speed bi-directional units, up to eight DCE or DTE devices can share one DCE or DTE device in a polled or contention environment. Sub-channels contend for the main channel by activating RTS, DCD, or by detecting data transitions.

Clock signals are provided either by an external modem connected on the master port, or by the internal baud rate generator (which provides rates up to 2,048kbps). In addition, any sub-channel port can be configured to provide clocking so that if the clock signal provided by the master source fails—or if DCD on sub-channel 1 becomes inactive—the DSD will use the internal clock or a sub-channel clock.

To prevent network lockups, DSDs have anti-streaming features that automatically removing a defective sub-channel from service. Each DSD sub-channel can be configured for DTE or DCE operation. Each channel can be set for Data or Interface Lead contention.

Each DSD comes with an internal power supply that can be set by a switch for 110- or 220-VAC operation.

FEATURES & BENEFITS

- ✔ Contention via RTS, DCD or data transitions, individually selectable in each sub-channel
- ✔ 64-bit tail circuit buffer (TCBs) included
- ✔ Internal or external clock
- ✔ Dial-up modem support
- ✔ Operation is transparent to data
- ✔ Sturdy rack-mountable enclosure (rack mount kit included)
- ✔ Individual sub-channel enable/disable switches
- ✔ Internal power supply; switch selectable for 110 or 220-VAC
- ✔ UL, CSA, TÜV, and FCC Class A approvals for all models; CE approval for Models 3080/V24 and 3060/X21

*I'm Glen, one of Patton's Product Marketing Managers. If you do not find what you need at **www.patton.com** or in this catalog, please call me at **+1 301.975.1000, x356**. You can also send e-mail to **gflowers@patton.com**.*

Ask the Experts

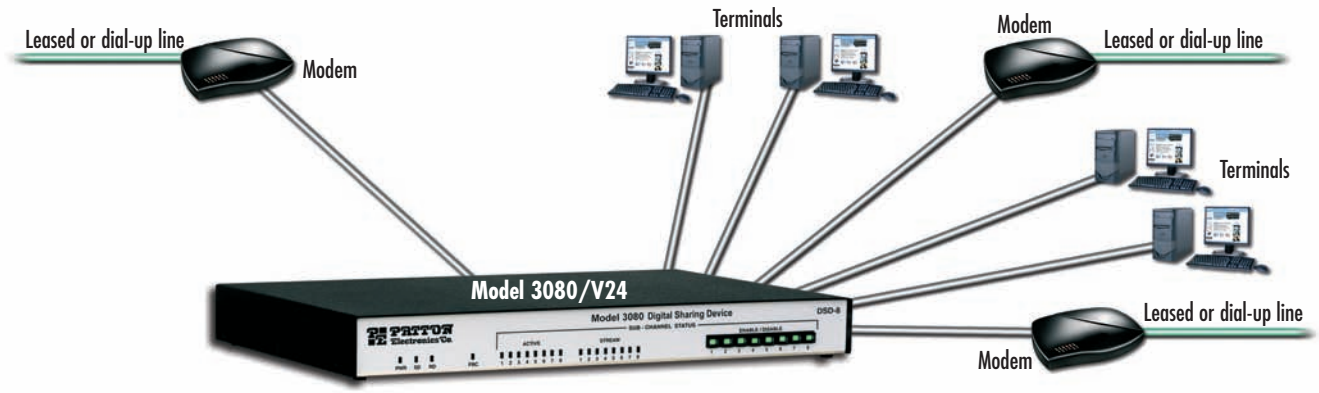
SPECIFICATIONS

Capacity: Sync/async DTE or DCE devices (6 for the 3060/V.24 and 3060/X.21, and 8 for the 3080/V.24)
Tail circuit buffering: Uni-directional 8-bit ring buffer
Anti-streaming: Automatic–selectable time-out intervals or disable
Sub-channel and modem interface: 3060/V24–RS-232 using DB-25s; 3060/X21–V.11using DB-25s; 3080/V24–RS-423 using DB-25s
Data rates: 3040/V35–up to 2 Mbps; 3060/V24–up to 76.8 kbps; 3060/X21–up to 2 kbps; 3080/V24–up to 128 kbps
Weight: 4.5 lbs (2.1 kg)
Timing: Internal–DIP switch selectable; Normal– from modem; External–clock provided on any sub-channel, with fallback to internal clock or sub-channel
Power source: 100–120/200–240 VAC, 50/60 Hz, 0.16/0.08A, switch selectable
Humidity: 5–90% non-condensing
Terminal service modes: Scanning– channels are continuously scanned for RTS/DCD or DATA on a sequential basis; Priority– channels are continuously scanned for RTS/DCD or DATA, channel 1 has highest access priority
Op. temp.: 32 to 122 °F (0 to 50 °C)
Dimensions: 1.75H x 17.00W x 11.0D in. (4.44H x 43.18W x 18.93D cm)

ORDERING INFORMATION

RS-232/423 DSD, 8 ports DTE or DCE to 1 master DTE or DCE
3080/V24: 120 VAC version
3080/V24-220: 220 VAC version

Typical Application



Powered RS-232 Modem Sharing Devices

Models 3012, 3014, & 3018

Now eight sync or async devices can share one modem in a polled or contention environment.

The Models 3012/V24 and 3014/V24 Modem Sharing Devices (MSDs) enable users to expand their polled or contention networks without acquiring additional data lines or modems. DSDs act as combined modem and port sharing devices.

With any of these bi-directional units, up to eight sync or async terminal devices can share one modem in a polled or contention environment. Data arriving at the master port is continually broadcast to all sub-channels. The first sub-channel to activate RTS automatically controls the master port. When RTS is deactivated, the MSD enables any other sub-channel to take control of the master port. Sub-channels contend for the main channel by activating RTS, DCD, or by detecting data transitions. Clock signals are provided by the modem connected to the master port, at data rates from 75 bps to 64 kbps (properly shielded, low capacitance cables must be used for speeds faster than 38.4 kbps) and faster.

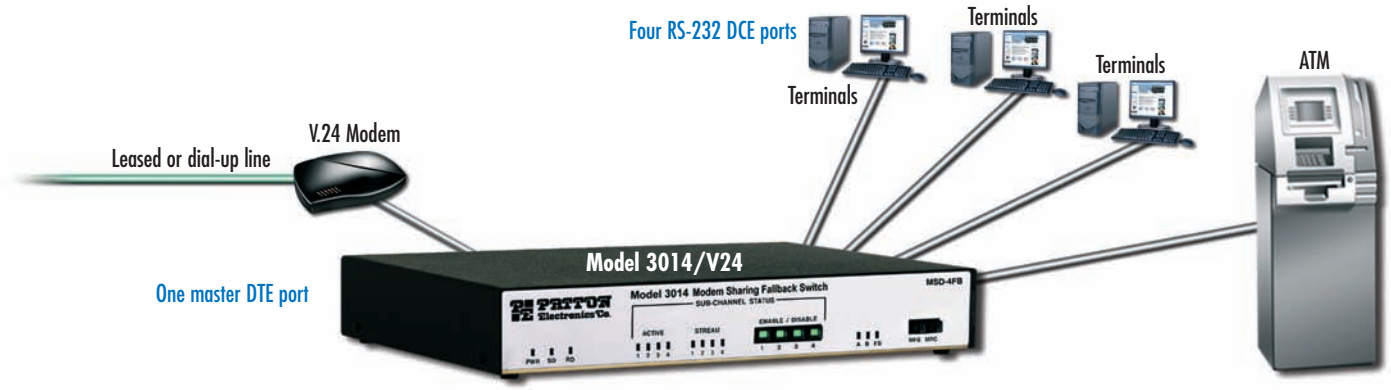
MSDs have optional anti-streaming features that prevent network lockups by automatically removing a defective sub-channel from service.

FEATURES & BENEFITS

- ✔ Speed/code transparency up to 64 kbps
- ✔ Operation is transparent to data
- ✔ Individual sub-channel enable/disable switches
- ✔ Selectable RTS/CTS time delay
- ✔ Fully cascadable
- ✔ Internal power supply; switch selectable for 110- or 220-VAC

*I'm Natalie, Patton's Inside Sales Manager, US & Canada. Call me at **+1 301.975.1000** when you want to purchase Patton products or if you have questions about our products. You can also send e-mail to **sales@patton.com**.*

Multiple RS-232 sync/async terminal devices sharing one RS-232 modem link in a polled environment



SPECIFICATIONS

Capacity: One to Eight RS-232 sync/async DTE devices; One RS-232 DCE master channel
Data format: Data is transparent at all data rates
Data rates: Up to 64 kbps (properly shielded, low capacitance cables must be used for speeds faster than 38.4 kbps)
Sub-channel interface: RS-232 (V.24) using female DB-25 connectors

Timing: External–from master port, sub-channel 1 pin 24 routed to master port
Modem interface: RS-232 (V.24) using a female DB-25 connector
Terminal service modes: Scanning–channels are continuously scanned for RTS on a sequential basis; Priority–channels are continuously scanned for RTS, channel 1 has highest access priority

Anti-streaming: Automatic–selectable time-out intervals
Power source: 100-120/200-240 VAC, 50/60 Hz, 0.16/0.08A, switch selectable
Weight:
3012/V24: 2.25 lbs (1.02 Kg)
3014/V24: 4.5 lbs (2.1 Kg)
Op. temp.: 32–122°F (0–50°C)
Rel. humidity: 5–90% non-condensing

Dimensions:
3012/V24:
1.75H x 8.90W x 10.0D in.
(4.44H x 22.60W x 25.40D cm)
3014/V24:
2.05H x 13.35W x 9.0D in.
(5.21H x 33.09W x 22.86D cm)

ORDERING INFORMATION

3012/V24: Powered RS-232 MSD, 2 V.24 DCE ports to 1 V.24 master DTE

3012/V24-220: Same as 3012/V24 except pre-configured for 220VAC

3014/V24: Powered RS-232 MSD, 4 V.24 DCE ports to 1 V.24 master DTE

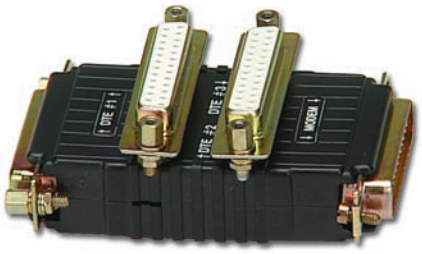
3014/V24-220: Same as 3014/V24 except pre-configured for 220VAC

Modem Sharing Device

Model 3010

Lets three RS-232 DTEs contend for access to one RS-232 modem

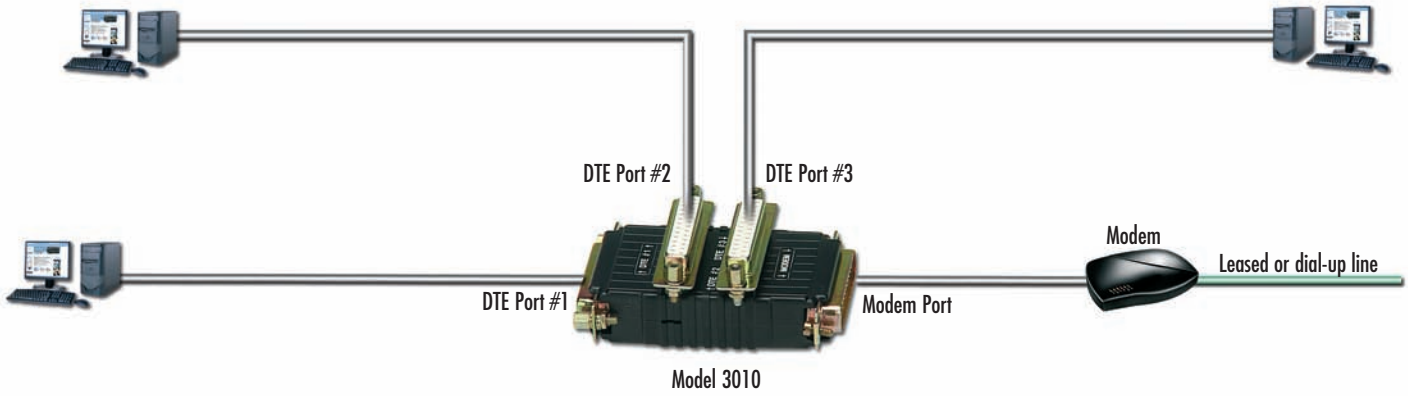
The Model 3010 modem sharing device lets three RS-232 DTEs contend to transmit data to one DCE such as a modem or mux. Supporting asynchronous or synchronous data rates to 38.4 kbps, the Model 3010 passes data and control signals in parallel from the modem to all three DTEs. Each DTE may also raise RTS to contend for the right to transmit exclusively to the modem. If two DTEs raise RTS simultaneously, the Model 3010 prioritizes access by port (1-2-3). The Model 3010 requires no AC power or batteries, no configuration, and plugs directly into the modem or multiplexer's DB-25 port.



FEATURES & BENEFITS

- ✔ Async or sync operation (transparent to protocol)
- ✔ No AC power or batteries required
- ✔ Prioritized monitoring scheme uses RTS contention
- ✔ Modem transmits in parallel to each connected DTE device
- ✔ Miniature size plugs into modem port

Typical Application



SPECIFICATIONS

Data Rates: 300 bps to 38.4 kbps
Transmission Format: Async or Sync (transparent to protocol)
Transmission Mode: Full or half duplex

Contention Method: Controlled by RTS
Interface: EIA RS-232/CCITT V.24
Dimensions: 3.13 x 2.11 x 1.20 in. (8 x 5.4 x 3 cm)

Connectors: DB-25 male on modem (DCE) interface, DB-25 female on DTE interfaces
Op. Temp.: 32–122°F (0–50°)

Power: Derived from RS-232 data and control signals, no AC power or batteries required
Humidity: Up to 95% non-condensing

ORDERING INFORMATION

3010: Modem Sharing Device

Micro Modem Splitter

Model 305

Lets three devices share a single modem

The Model 305 Micro Modem Splitter is a passive device that connects up to three computers to a single modem. The splitter is transparent to data format. The DTE pins 2, 4, and 20 are isolated to the modem port; all other pins are passed straight through. The Model 305 supports sync or async operation

FEATURES & BENEFITS

- ✔ Completely passive device
- ✔ DTE pins 2, 4, and 20 are isolated to the modem port; all other pins are passed straight through
- ✔ Transparent to data format
- ✔ Sync or async operation

ORDERING INFORMATION

305: Modem Splitter