



RS-232 Serial Extender

Model 1052AS

The Model 1052AS miniature digital modem offers multi-rate Async/Sync speeds to 38.4/128 kbps while transparently passing modem control signals. This 2-wire full-duplex modem uses 2B1Q modulation for superior noise immunity.

Multi-Rate Speeds

Full-duplex synchronous rates to 128 kbps and asynchronous rates to 38.4 kbps.

Noise Immunity

The 1052AS uses 2B1Q for improved performance in noisy environments.

Pass RS-232 Control Signals

Transparently passes CTS, RTS, and DCD over the 2-wire line

Long Reach

Industry leading distances of over 26,000 feet (8 km) without repeaters

Power Options

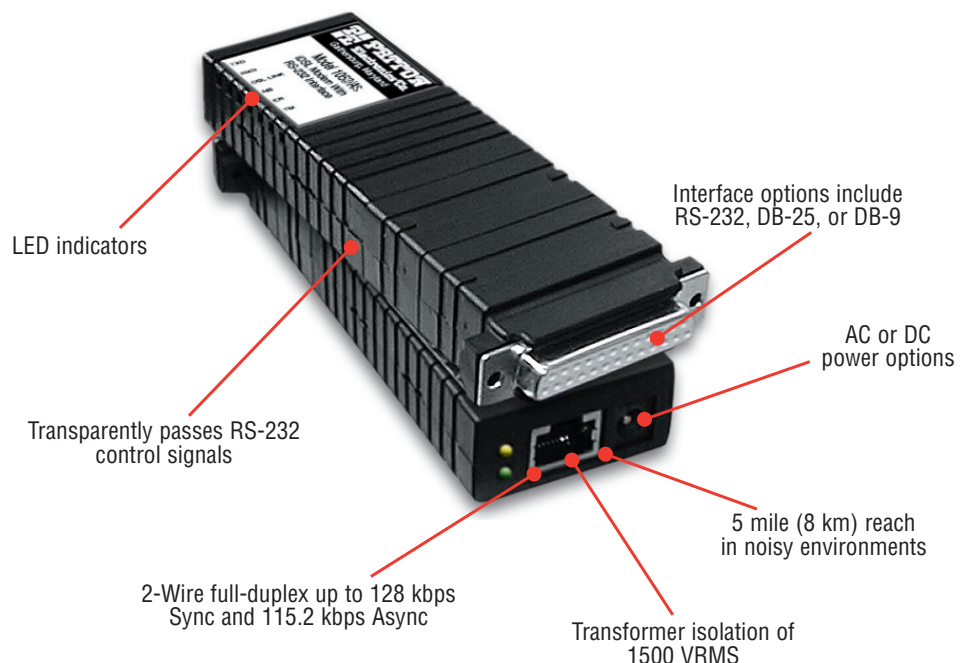
Universal AC power (90–260 VAC) as well as -12, -24, & -48 VDC

Patton's Model 1052AS is a long-range powered, RS-232 digital modem. Operating synchronously or asynchronously at full duplex over a single twisted pair, the Model 1052AS uses 2B1Q modulation for superior signal strength even in noisiest environments. RS-232 serial connections can now be extended to distances over 5 miles (8 km) without the use of repeaters! Using ordinary voice-grade wire, the 1052AS RS-232 Serial Extender provides a cost-effective solution for dedicated end-to-end connections with synchronous line rates up to 128 kbps and asynchronous line rates up

to 38.4 kbps including RTS, CTS and DCD modem signals.

The miniature size of the Model 1052AS allows for a direct connection to your transmission devices serial port. LEDs are conveniently located on the side of the Model 1052AS to provide at-a-glance status indication of the unit. Additionally, two 8-position dip switches are located at the bottom of the unit to allow the configuration of various asynchronous or synchronous line rate settings.

For more information, visit www.patton.com.

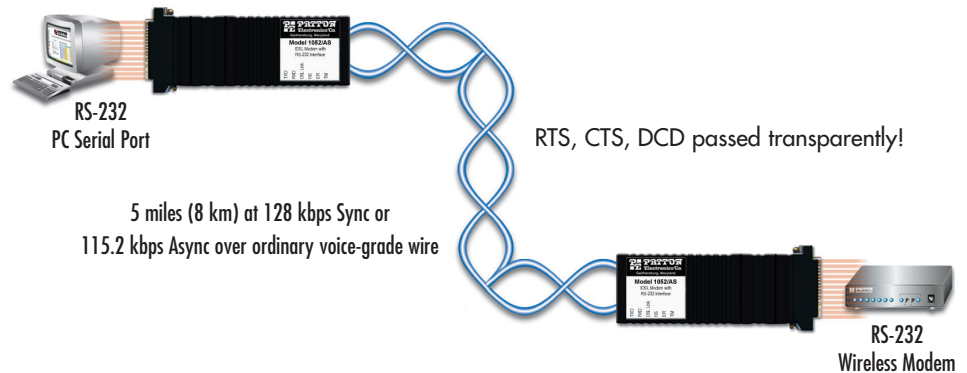


Features

- ✓ Extends serial devices up to 5 miles (8 km) over ordinary grade twisted pair
- ✓ Miniature size for direct connections to your serial port
- ✓ 2B1Q modulation enhances signal immunity in noisy environments and increases the distance of RS-232 signals.
- ✓ Multiple user-configurable asynchronous and synchronous rate options
- ✓ Transparently passes RS-232 control signals over the link.

Typical Application

The Patton Model 1052AS offers premium performance using the most common, inexpensive cabling infrastructure in the world, voice-grade telephone wire. Using 2B1Q modulation a serial port can be extended to distances of over 5 miles (8 km).



Specifications

Clocking

Internal, external, or receive recover

Line Coding

2B1Q conforming to ANSI T1.601 and ETSI ETR-080 standards

Line Interface

RJ-45; Two-wire twisted-pair using pins 4 & 5; Transformer coupled 1500 VRMS isolation

Maximum Line Distance for All Data Rates

10.1 miles (16.4 km) on 19 AWG (0.9 mm) wire
7.2 miles (11.5 km) on 22 AWG (0.64 mm) wire

5.0 (8 km) on 24 AWG (0.5 mm) wire

3.4 (5.5 km) on 26 AWG (0.4 mm) wire

Serial Interface

DB-25 Female or DB-9 Female depending on model ordered

Serial Data Rates

Synchronous: 32, 56, 64, and 128 kbps

Asynchronous: 0–38.4 kbps.

LED Indicators

TXD, RXD, Link, NS (no signal), ER (CRC error)

Power Supplies

External wall-mount power supply with universal 90–260 VAC input or -12,-24, and -48 VDC input

Dimensions

5.18L x 1.69W x 0.75H in.
(13.16L x 4.29W x 1.91H cm)

Weight

2.01 lbs. (<1.0 kg)

Compliance

EMC

- FCC Part 15, subpart B, class A (US)
- EMC Directive 89/336/EEC (EU)
- ICES-003 (Canada)

- AZ/NZS 3548 (Australia C-Tick)

- CISPR 22 (International)

Safety

- UL 60950/CAN-CSA-C22.2 60950 (Safety—US/Canada)

- EN 60950 (Safety—Europe/International)

Environment

Operating temperature: 32–122°F (0–50°C)

Humidity: 5–95% non-condensing

Altitude: 0–15,000 feet (0–4,572 meters)

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