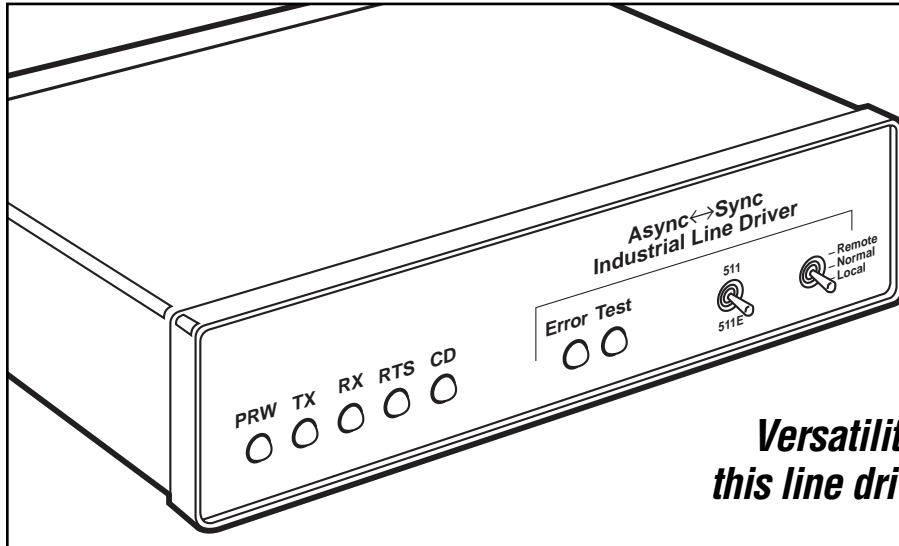


BLACK BOX®

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ASYNC/SYNC INDUSTRIAL LINE DRIVER



***Versatility is what makes
this line driver indispensable!***

Key Features

- ▶ ***Operates in a variety of environments: sync or async, 2- or 4-wire, half- or full duplex, point-to-point or multipoint.***
- ▶ ***13 selectable data rates to choose from!***
- ▶ ***Extremely tolerant to heat and humidity.***
- ▶ ***Transmits data up to 12 miles.***
- ▶ ***Built-in 2000-VAC transformer isolation and high-speed surge protection.***
- ▶ ***V.52 and V.54 test modes.***

Think of your operating environment as an obstacle course. There are all sorts of hurdles to overcome. If you're not worrying about spikes, then there's always excessive heat. Or maybe you're set up for 2-wire operation and now you need to go to 4-wire. Or your application calls for multipoint configuration when you really need point-to-point. This is no time for a wimpy line driver. You need versatility. You need equipment that can handle extreme conditions. You need the Async/Sync Industrial Line Driver.

The Async/Sync Industrial Line Driver is loaded with features that not only drive your data, but also keep it safe from harmful conditions:

- Built-in surge protection keeps your equipment safe from spikes.

- Transformer isolation guards against ground loops.
 - Extreme temperatures ranging from 14 to 158°F (-10 to +70°C) won't affect performance.
- And when it comes to being prepared for all situations, you can't beat this kind of flexibility:

- 2-wire (half-duplex) or 4-wire (full or half-duplex) operation.
- Point-to-point or multipoint configuration in both 2- and 4-wire applications.
- Data is transmitted in async or sync mode.
- 13 selectable data rates.
- Transmit data up to 12 miles (19.3 km).

Other features include three clocking selections (internal, external, or receive recover),

equalization, and an anti-streaming timer. You also get comprehensive diagnostics including a V.52-compliant BERT-pattern generator/detector and V.54 LAL and RDL tests. Both RDL and LAL modes can be controlled by a manual switch or via the V.24/RS-232 interface.



Specifications

Maximum Distance — 12 miles (19.3 km)

Operation — 2-wire half-duplex or 4-wire half- or full-duplex, point-to-point or multipoint

Protocol — Sync or async

Speed — 1.2, 1.8, 2.4, 3.6, 4.8, 7.2, 9.6, 14.4, 19.2, 28.8, 38.4, 57.6, or 64 kbps (all rates switch-selectable)

Applications — Point-to-point or multipoint

Interface — RS-232

Transmission Line — 2- or 4-wire UTP, 19 to 24 AWG

Clocking — Internal, external, receive

Carrier — Carrier Constantly ON or Controlled by RTS

RTS/CTS Delay — Set to No Delay, 7 or 53 ms

RTS Anti-Stream Timer — 12.5 seconds, 50 seconds, or disabled (switch selectable); Tolerance: +50%, -0%

Diagnostics — V.52 compliant bit-error-rate pattern (511/511E pattern) generator and detector with error-injection mode; V.54 compliant: Local Analog Loopback and Remote Digital Loopback, activated by front-panel switch or via RS-232 interface

Transformer Isolation — 2000 V RMS

Connectors — (1) DB25F, RJ-45, and terminal block

Indicators — (7) LEDs: TX, RX, RTS, CD, Power, Test, Error

Surge Protection — Immune to IEC-801-5 Level 2, 1kV

Operating Temperature — 14 to 158°F (-10 to +70°C)

Humidity Tolerance — 100% condensing from 14 to 86°F (-10 to +30°C); Absolute humidity: 86 to 158°F (30 to 70°C)

Power — 120-/230-VAC internal power supply (selectable)

Size — 1.6"H x 5.5"W x 7.5"D (4.1 x 14 x 19.1 cm)



Why Buy From Black Box? Exceptional Value. Exceptional Tech Support. Period.

Recognize any of these situations?

- You wait more than 30 minutes to get through to a vendor's tech support.
- The so-called "tech" can't help you or gives you the wrong answer.
- You don't have a purchase order number and the tech refuses to help you.
- It's 9 p. m. and you need help, but your vendor's tech support line is closed.

According to a recent survey by Data Communications magazine, 90% of network managers surveyed say that getting the technical support they need is extremely important

when choosing a vendor. But even though network managers pay anywhere from 10 to 20% of their overall purchase price for a basic service and support contract, the technical support and service they receive falls far short of their expectations—and certainly isn't worth what they paid.

At Black Box, we guarantee the best value and the best support. You can even consult our Technical Support Experts before you buy if you need help selecting just the right component for your application.

Don't waste time and money—call Black Box today.

Ordering Information

ITEM	CODE
Async/Sync Industrial Line Driver.....	ME500A
<i>You May Also Need...</i>	
RS-232 Cable, 25-Conductor, 10-ft. (3-m).....	ECM25C-0010

