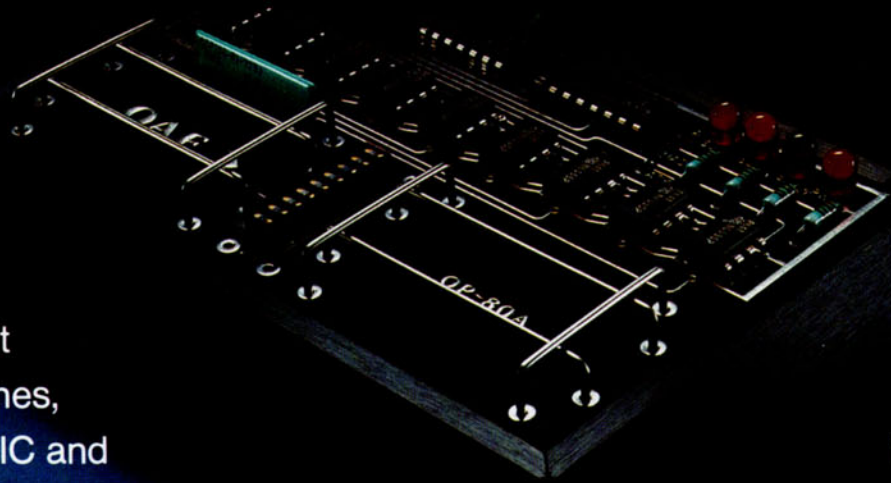


FAST & AFFORDABLE



Now you can load monitors, assemblers, memory test routines, debug routines, computer games, BASIC and more, quickly and accurately! (0-5,000 CPS!) **OAE** Model OP-80A quality engineered tape reader has no moving parts, is compact and portable, and will **interface with all microprocessors** via an 8 bit parallel port. Each unit comes complete with precision optical sensor array, high speed data buffers, all required handshake logic, four status LEDs,

handsome black anodized aluminum case, flat ribbon interface cable, and complete assembly and interface instructions, schematics and software. You can order yours assembled or in easy to build kit form. Do it....and you can read paper tape **fast and accurately.**

OAE 7330 Laurel Canyon Boulevard
North Hollywood, California 91605

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OPERATION

With motor driven readers, the tape is pulled in from one side and dumped on the other. With long programs, a hand held winder is required to pick up the tape from the floor. However, with the OP-80A, the tape can be read and wound in one operation, and as fast as your winder can wind! Short programs can be pulled through as fast as you can pull. Stops, starts, and speed variations do not cause read errors!

APPLICATIONS

The OP-80A paper tape reader will interface with all microprocessors. Data is presented as an 8 bit parallel character via a flat ribbon cable. All signals are TTL compatible and only +5vdc at 175ma is required for power.

The reader includes four status LEDs; PWR, SP, S1 and S2. The PWR LED monitors the +5 volt supply and provides a regulated reference voltage for the on board comparators. The SP LED monitors the status of the sprocket hole sensor. This LED comes on when there is sufficient light to read punched tape. S1 and S2 are software controlled status indicators which may be turned on or off under program control. They can indicate when the computer is ready to receive data, if a read or memory error has occurred, the end of a program, etc.

SPECIFICATIONS

TAPE.....EIA standard 1" wide, 8 level (1);
33% maximum light transmission.

READ RATE.....0 to 5,000 characters per second (2)
Stops, starts, and speed variations do not cause read errors.

INPUT/OUTPUT... All I/O signals are TTL compatible.
Hole = Logic 1 (+3.5vdc at 50ma)
No Hole = Logic 0 (0.4vdc at 50ma)
RDA = Reader Data Available (□)
RDA = Reader Data Available (⌊)
ACK = RDA Acknowledge (□) or (⌊)

POWER.....+5vdc +5% at 120ma typical, 175ma max.

SENSOR ARRAY... 9 position phototransistor array,
manufactured to OAE specifications.

SIZE.....4.6" x 3.2" x 1.0" (In black anodized
extruded aluminum case.)

WEIGHT.....175 Grams (7oz.)

OPERATING TEMPERATURE... 0° to 70°C

WARRANTY.....Kits: 90 days
Assembled & Tested: 6 months

PRICE.....\$74.50 Kit
\$95.00 Assembled & Tested

Prices and specifications are subject to change without notice.

- (1) Other tapes may be read by modifying the wire guides.
- (2) Measured with oiled opaque paper tape.

OAE

**7330 Laurel Canyon Boulevard
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Phone (213) 765-8080**

Please send _____ OP-80A Paper Tape Reader(s) ASAP!

- Enclosed is _____ plus \$2.50 for shipping
plus California sales tax (if applicable) for a total of \$ _____
- Please charge my bank card: Card # _____
- B of A** MC Exp. Date _____
- I like kits. Ship it alive and well (assembled and tested).

Name _____

Address _____

City _____ State _____ Zip _____