

TurboPuck™

2D and 3D Position Control

The TurboPuck™

The TurboPuck™ is a professional point-and-select device that offers both high resolution AND fast positioning. Just press a fingertip-operated switch to change from precise, high-resolution positioning to extremely rapid cursor movement. The TurboPuck™ is a completely self-contained, hand-held device that requires no desk space for operation.

The TurboPuck™ can provide output in RS-232 ASCII and binary formats for easy interfacing to a microcomputer or terminal.

Applications for the TurboPuck™ include:

- Optical Mouse Emulation
- Digitizer Tablet Emulation
- Three-axis Control for Solid Modeling
- Cursor Control for Graphics and Word Processing Packages
- Instrumentation and industrial control



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Applications

Typical TurboPuck™ applications include:

Word Processing and Spreadsheet Packages

The TurboPuck™ needs no desk space — it's a completely self-contained, hand-held device.

Graphics Systems

The TurboPuck™'s high resolution and fast pointing speed make it an ideal pointing device for CAD/CAM and other graphics intensive applications.

Instrumentation Systems

The TurboPuck™ is a natural, intuitive device that eases the user's interaction with complex microprocessor-controlled instrumentation.

Software Development

The TurboPuck™'s RS-232 output allows quick, easy interfacing and lowers software development time and costs. The TurboPuck™'s on-board intelligence provides the user with a wide range of output formats, window sizes and operating modes.

Features

Standard features include:

High Resolution: Up to 1 part in 16,384 — exceeding requirements for most applications.

RS-232 operation: Full bidirectional RS-232 communications using ASCII or binary formats.

Automatic Cursor Control (ACC): Allows a host computer program to place the cursor at specified screen coordinates and to force the TurboPuck™ into a specified operating mode (see below for operating modes).

Window Commands: Allow the host computer to select active windows ranging in size from 10 x 10 to 16,384 x 16,384 elements.

Tracking: The TurboPuck™ automatically tracks in straight horizontal lines for ease of use in graphics, word processing and spreadsheet applications.

3-D Operation: The TurboPuck™ can be switched between 2D and 3D operation, either by DIP switch or under host computer command.

Fingertip Optical Switch: The TurboPuck™'s handle incorporates an optical switch that is always at the user's fingertips. This switch can be used to select a different operating mode, or its function can be redefined in software.

Operating Modes: Selectable by various combinations of switch positions and/or control characters from the host computer. The six operating modes are Mouse Mode, Digitizer Tablet Mode, Absolute Mode (Mapped), Absolute Mode (Unmapped), Zoom Mode and a combination Zoom+Absolute Mode.

Output Types: Selectable by switch settings or by sending control characters from the host computer. The three output types are Continuous (data is output continuously), Delta (data is output only when a change in position occurs) and On Request (data is output only when requested by the host computer).

Specifications

Model	TurboPuck™
Resolution range	1 part in 10, variable through 1 part in 16,384
External interface	Full RS-232
Baud rate	300 to 19200
Power consumption	1W at 5V (may be powered by pin 11 on RS-232 connector)
Dimensions	7.5 x 4 x 1 inches
Weight	12 ounces
Switches	4
Controlled axes	X, Y and Z or theta

Price List

TurboPuck™ with 4-foot RS-232 cable \$159.95

Optional power supply \$20.00

Volume discounts available

The optical pointer component used in the TurboPuck™ is also available as a separate component. Contact the factory for details.

Terms

Net 30 days for customers with approved credit. All other orders must be prepaid or C.O.D.

Shipping and handling \$10.00 per unit.

Overseas orders under \$2,000 must be prepaid, in U.S. dollars, with a check drawn on a U.S. bank. The shipping and handling charge is \$25 for addresses outside the U.S., Canada and Mexico. Orders over \$2,000 may be prepaid by letter of credit.

Prices, terms and specifications effective April 15, 1985 and subject to change without notice.

Printed in the U.S.A.

The logo consists of the letters 'KA' in a bold, stylized, serif font. The 'K' and 'A' are connected at the top.

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