

Datenblatt

Desktop Touchpad mit Glasoberfläche für hygienes...

TPD-55A326



Bezeichnung	TPD-55A326
Modell	TPD
Zertifizierung	CE, RoHS, REACH
Artikelnummer	TPD-55A326
Ausführung	Desktop Gehäuse
Schalttechnologie	Kurzhubtasten
Cursorsteuerung	Touchpad
Technologie	kapazitiv
Front	Glas
Schutzgrad	IP65
Betriebstemperatur	0°C ... +70°C
Lagertemperatur	-40°C ... +85°C
Abmessungen	145,1 x 111,1 x 15 mm
Schnittstelle	USB
Zusatzfunktion	ohne
Einsatzbereich	Medizin, Hygiene, Office, Design

TPD-55A326



- 6 inch - desktop
- Capacitive touch
- Glass overlay

6" DESKTOP TOUCHPAD WITH 8 SHORTCUT KEYS

Using years of knowledge/experience gained from developing industrial trackball technology, Cursor Controls Ltd have developed a range of advanced touchpad solutions. The touchpads provide smooth and precise cursor control using the latest and most advanced touch sensing technology and are designed for use in the most extreme environments.

The TPD Series desktop touchpad provides both conventional X and Y-axis cursor movement with plug-and-play, multi-finger gesture support for enhanced user interaction. The mutual-capacitance based tracking engine combines the benefits of solid state sensing (no moving parts) with the precision, functionality and performance associated with the Cursor Controls product range. The design allows for easy cleaning and decontamination, ensuring continued optimum performance and operation under the harshest of conditions. The unit has been designed to be a freestanding desktop device and optimises desk space when compared to a mouse.

FEATURES

- Solid state sensing technology – capacitive touch sensing tracking engine
- Output: USB
- IP65 sealing
- Haptic and audible feedback (function specific)
- Multi-finger gesture support
- 8 shortcut keys - capacitive touch
- Smooth operation in rugged environments
- Wired USB cable provides high reliability and avoids the need for batteries
- Tolerant to moisture, water and liquid contaminants
- Custom feature button configurations / overlays available

APPLICATIONS

- Industrial consoles
- Medical systems
- Marine systems
- Sound and lighting desks
- Video editing consoles
- Custom keyboard applications

MECHANICAL SPECIFICATIONS

Dimensions	145mm x 111mm x 15mm
Weight	~200 grams
Touch Surface Material	Glass (anti-fingerprint & anti-glare).
Touch Surface Colour	Metallic grey - Pantone PMS 10392
Case Material	Polycarbonate
Case Colour	RAL 9005 Black

OPERATIONAL SPECIFICATIONS

Motion Detection Method	Mutual capacitance sensing
X/Y Position Reporting	Relative
Sample Rate	Up to 100 samples/sec.
Touchpad active area size	130 x 80 mm

ELECTRICAL SPECIFICATIONS

Protocol	USB
Supply Voltage	4.40 – 5.25V
Supply Current	60mA typical – default resolution setting, feedback idle 300mA peak – max resolution setting, feedback effects playing
Resolution (X, Y)	960 x 720 counts
Output Connector	USB "A" type connector supplied with 2 metre cable
Mating Output Connector	Standard USB "A" type socket

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	0° to 70°C
Operating Humidity	5 to 95% relative humidity
Storage Temperature	-40° to +85°C
Vibration	2g, 10-500Hz, 1 octave/min, 10 sweep cycles (IEC 60068-2-6)
Operating Shock	15g/11ms, ½ sine, 3 shocks in +ve and -ve direction, all 3 axes, IEC 60068-2-27)
Sealing Level	IP65
ESD	15kV air-discharge and 8kV contact discharge (IEC 61000-4-2)
EMC	Radiated immunity - limits according to level 3 of IEC 61000-4-3 Radiated emissions to EN55022 class B

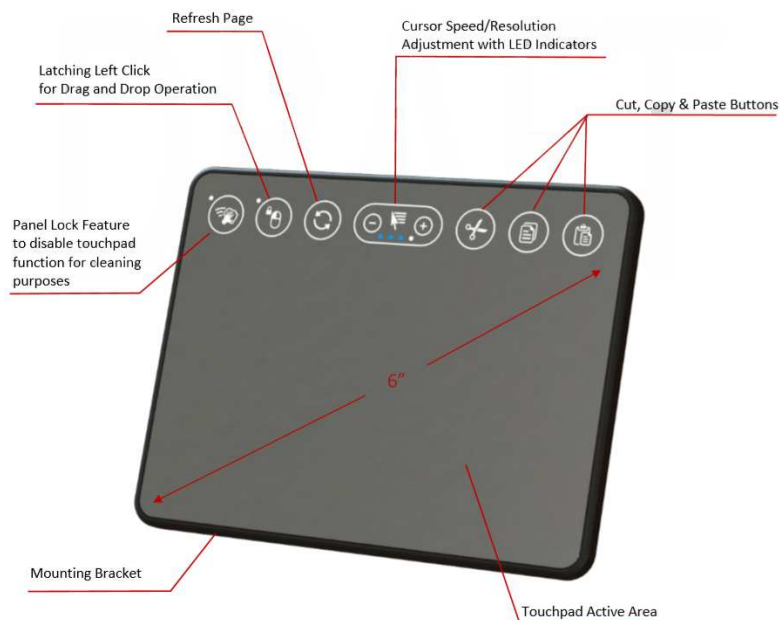
OPERATING SYSTEM COMPATIBILITY

USB Windows, Linux, Mac OS, and Android. Fully compliant with USB 2.0 framework (chapter 9) & HID specifications

TOUCHPAD FEATURES

The TPD Series touchpad module includes the following features/technologies.

- **Touchpad Technology:** The 6-inch touchpad active area provides both conventional X and Y-axis cursor movement with plug-and-play, multi-finger gesture support for enhanced user interaction.
- **Shortcut keys:** 8 x shortcut keys are located at the top of the touchpad module. These utilise capacitive touch sensing technology and incorporate frequently used functions such as Cut, Copy & Paste, cursor resolution adjustment etc., as well as a panel lock feature to facilitate cleaning/decontamination of the device.
- **Enclosure:** The touchpad is enclosed within a plastic case which, combined with an overmolded cable, offers an IP65 sealing solution and added protection against potential impact.



Cursor Tracking Mode

The touchpad includes an intuitive **Ballistic Tracking** algorithm to provide increased cursor resolution when tracking fast, whilst retaining the native resolution (960 x 720 counts) for tracking accurately at slow speeds.

The touchpad also includes an **Inertia Tracking** algorithm which applies inertia to the X and Y axis, allowing cursor movement or scroll to continue in the intended direction after the finger(s) is lifted from the touchpad surface, after which the cursor will naturally slow to a stop.

GESTURE OPERATIONS

The touchpad incorporates an in-built gesture recognition engine designed to enhance user experience and increase the overall efficiency of user interaction with a host system. Use of gesture control enables the user to access frequented functions such as button clicks, scrolling and zooming by means of highly intuitive multi-finger operations. See table below for details on the available gesture actions.

GESTURE ACTION		FUNCTION
	Single-Finger Tap	Left mouse button click Double/triple tap supported
	Two-Finger Tap	Right mouse button click Double/triple tap supported
	Three-Finger Tap	Middle mouse button click Double/triple tap supported
	Two-Finger Vertical Drag	Scroll Up/Down
	Two-Finger Horizontal Drag	Scroll Left/Right ¹
	Two-Finger Splay	Zoom In ¹
	Two-Finger Pinch	Zoom Out ¹
	Three-Finger Swipe Left	Back ¹
	Three-Finger Swipe Right	Forward ¹

1. Horizontal scroll and zoom functions are dependent on application support.

CURSOR SPEED / RESOLUTION SETTINGS

The touchpad allows the user to increase or decrease the cursor resolution as required across 8 levels, indicated by the LED indicators underneath the + and - buttons. The table here below provides details of the resolution provided by each level.

Level	Cursor Resolution	
	X	Y
0	360	240
1	480	360
2	720	540
3 (Default factory setting)	960	720
4	1200	900
5	1440	1080
6	1680	1260
7	1920	1440



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TOUCHPAD FEEDBACK

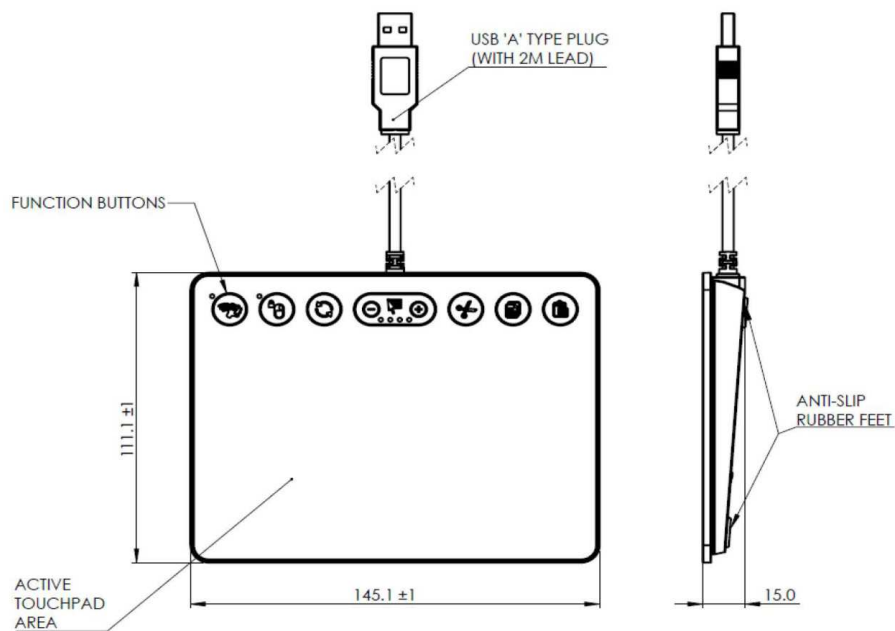
The touchpad features haptic and audible feedback to provide a perceptible response to user interaction events. The table here below details the default event mapping for user feedback;

Event	Haptic Feedback	Audio Feedback
Finger Taps (e.g. Left Mouse Click)	No	Yes
Gesture Operations (e.g. Two finger Vertical Drag)	Yes	Yes
Feature Buttons	Yes	Yes
Active Area Edge Detection	Yes	No

PANEL LOCK FEATURE

The panel lock feature allows the touchpad to be locked / disabled for cleaning purposes. This can be achieved by tapping and holding the panel lock button for 3 seconds to toggle ON or OFF. The panel lock LED will remain illuminated whilst the touchpad is locked.

DIMENSIONAL DRAWING



Dimensional drawing specifies factory default orientation. All dimensions are in mm unless otherwise stated. Tolerances +/- 0.2mm unless otherwise stated. Please note that a STEP model is available on request. Please contact your local sales office for more information

ORDER INFO

6 inch desktop touchpad - Glass overlay
incl. output cable

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