

PAW3519DL-TKST: USB1.1 Full Speed SoC Mouse Chip

General Description

The PAW3519DL-TKST is an USB SoC mouse chip optimized for red-LED based wired PC mouse application. It is capable of high-speed motion detection up to the velocity of 48 inches/sec and acceleration of 10g. It supports USB1.1 Full-Speed with programmable report rate up to 1000Hz, twelve programmable versatile buttons, wide range of CPI resolution selection and programmable RGB LED indicator to match with each CPI resolutions. The built-in OTP memory can be programmed to store the custom configuration for different features and functions.

Key Features

- Motion speed detection up to 48ips (inch/sec) and acceleration of 10g
- Single power supply with wide voltage range: 4.25V to 5.25V
- Supports USB1.1 Full-Speed interface
- Selectable USB report rate: 1000 / 500 / 250 / 125 Hz
- Supports standard five mouse buttons (L, R, M, B4,B5) and also nine extra buttons for advanced customizable functions
- High sensitivity CPI resolution up to 4200cpi with fine setting of 200cpi /step
- Supports CPI resolution switching button for switching levels from 3-level to 6-level and each CPI resolution level can be programmed individually with RGB LED indicator to match each CPI resolution
- Supports breathing RGB LED and Logo LED functions
- Supports Media Mode: Play/Pause/Stop, Mute/UnMute, Volume Up/Down, Open Media, Next /Prev Track)
- Support flexible OTP memory for versatile features
- Programmable USB VID/PID : xxxx/xxxx
- Programmable USB Product String : xxxxxxxxxx Gaming mouse

Applications

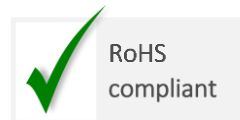
- USB1.1 Full-Speed SoC features mouse applications
- USB motion tracking input device

Key Parameters

Parameter	Value
Supply Voltage (V)	4.25 – 5.25
Light Source	Discrete Red LED
Interface	USB1.1 Full-Speed
USB Report Rate (Hz)	1000/500(default)/250/125
Tracking Speed (ips)	Up to 48
Acceleration (g)	Up to 10
Resolution (cpi)	Up to 4200 (200/step) (Default is 1200)
Operating Current @ VBus = 5V, Excluding any LED current	11mA @ mouse active 1mA @ USB suspend
Package Dimension (mm)	14.22 x 13.208 x 6.10

Ordering Information

Part Number	Package Type
PAW3519DL-TKST	iDIP 14 pins



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