



PAC1934 USB A PowerMeter

Part Number: ADM00974

Summary

USB Type A Power and Energy Meter based on Microchip's PAC1934.

It measures USB voltage and current, automatically calculates instantaneous power and accumulates power over time, making it suitable for power and energy monitoring. It features PAC1934, a Quad DC Power/Energy Monitor with Accumulation IC.

The power meter features a user-friendly joystick control and an OLED display, making it easy for everyone to use it.

PAC1934's internal 48-bit power accumulator and 24-bit sample counter registers offloads the Power Meter MCU processing load, reducing the device power consumption and making room for additional high-level features.

PAC1934's internal high-speed data sampling rate (1024) ensures high accuracy metering data reporting with no MCU processing required.

Up to 10 measurements can be saved in device FLASH memory. The device counters can be reset to 0 or can be restored to the data saved previously in the FLASH memory.

The power meter features a user-friendly joystick control

Product Features

- USB Type A Power Monitor
- Features PAC1934 Quad DC Power and Energy Accumulation
- Provides various information on: Bus voltage, current, instantaneous power consumption and energy accumulation
- Screen can be rotated 180 degrees to ease operation
- Can be used to profile power consumption on various USB-powered devices
- "Screen saver" feature further reduces the device internal power consumption, with no data or precision loss.
- User-friendly menus, with joystick navigation and OLED display

Documents

PAC1934 USB Type A PowerMeter (ADM00974) Gerbers component board	9/10/2018	610KB
PAC1934 USB Type A PowerMeter (ADM00974) Gerbers top shield	9/10/2018	509KB
PAC1934 USB Type A PowerMeter (ADM00974) Gerbers bottom shield	9/10/2018	512KB
PAC1934 USB Type A PowerMeter (ADM00974) BOM	9/10/2018	70KB
PAC1934 USB Type A PowerMeter (ADM00974) Schematic component board	9/6/2018	832KB

