Q: What is the purpose of the microSD card slot on the PowerDebug X51?

2026-11-29 - Comments (0) - Setup / update

The microSD card slot on the PowerDebug X51 is designed to enable **autonomous operation** of the debugger. By inserting a prepared microSD card, you can run **PowerView for Linux on ARM64** directly on the device, along with a suite of Linux tools.

This allows the PowerDebug X51 to function as a **standalone unit**—ideal for **flash programming**, **in-field testing**, or **remote access scenarios**. In this mode, you can access the PowerView interface via a standard web browser over the network, without requiring a separate host PC.

Note

The microSD card must be inserted **upside down**.

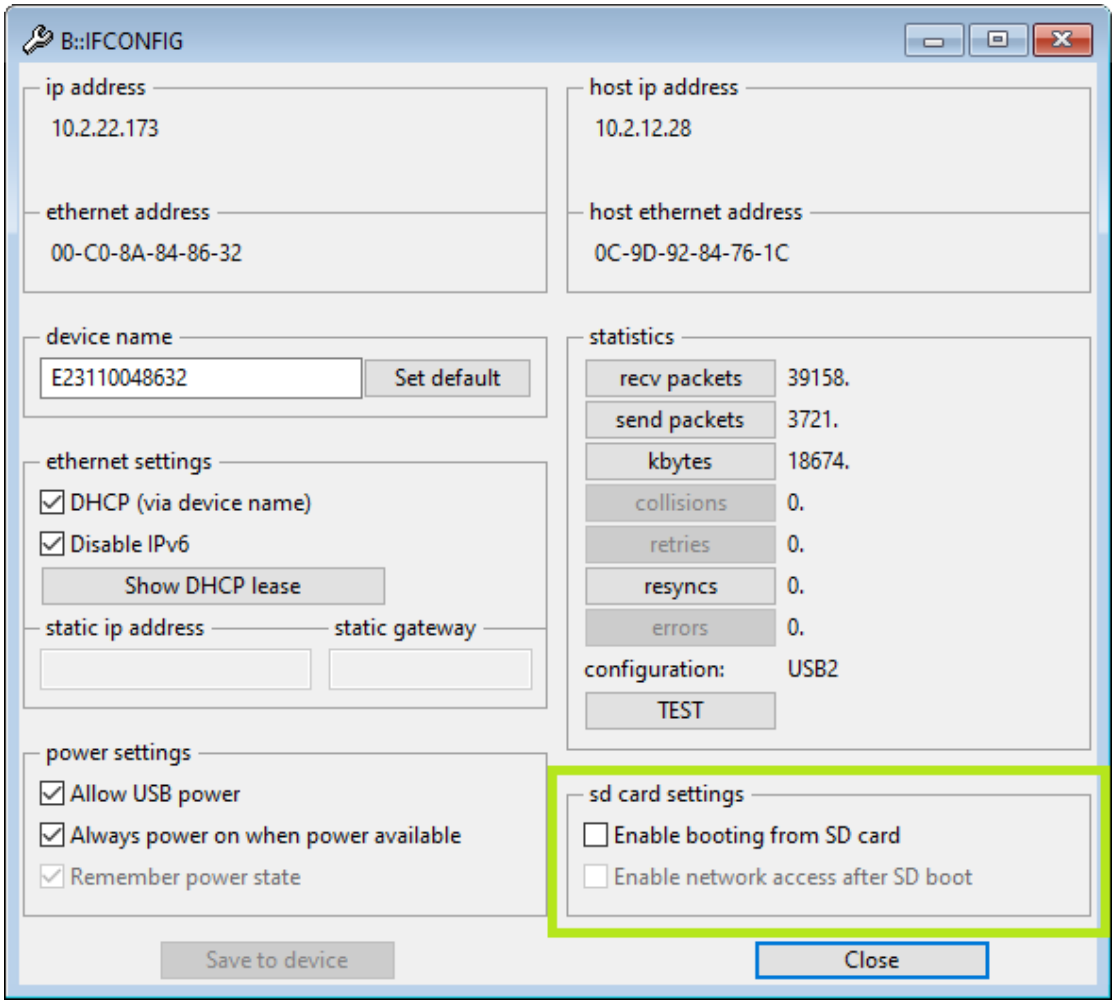
Availability

This feature will become available during **2025**. Lauterbach will provide detailed instructions and tools to help you prepare a suitable microSD card for use with the PowerDebug X51.

Enabling the SD Card Slot

For **security reasons**, the microSD card slot is **disabled by default**. To enable it:

1. Connect the PowerDebug X51 to your PC via **USB**.
2. In TRACE32 PowerView, go to **Menu → Misc → Interface Config...**.
3. In the Interface Config dialog, check the box **"Enable booting from SD card"**.



Once booted from the SD card, the **SELECT LED** (located below the POWER LED) will illuminate **blue** instead of the usual red, indicating that the device is operating from the SD card.

Optional: Permanent Deactivation

Although not recommended, it is possible to **permanently disable** the microSD card slot by purchasing and activating the optional **LA-3577X license**.
Re-enabling a permanently disabled slot would require sending the device back to Lauterbach for servicing.