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

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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**".

**B::IFCONFIG**

ip address: 10.2.22.173

ethernet address: 00-C0-8A-84-86-32

device name: E23110048632 Set default

ethernet settings:

- ☒ DHCP (via device name)
- ☒ Disable IPv6
- Show DHCP lease
- static ip address:  static gateway:

power settings:

- ☒ Allow USB power
- ☒ Always power on when power available
- ☒ Remember power state

statistics:

|              |        |
|--------------|--------|
| recv packets | 39158. |
| send packets | 3721.  |
| kbytes       | 18674. |
| collisions   | 0.     |
| retries      | 0.     |
| resyncs      | 0.     |
| errors       | 0.     |

configuration: USB2

TEST

**sd card settings:**

- ☐ Enable booting from SD card
- ☐ Enable network access after SD boot

Save to device Close

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.