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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**".

The screenshot shows the B::IFCONFIG utility window. It contains several sections for configuring network and system settings. The 'ip address' is 10.2.22.173 and the 'ethernet address' is 00-C0-8A-84-86-32. The 'device name' is E23110048632. The 'ethernet settings' section has checkboxes for 'DHCP (via device name)' and 'Disable IPv6', both of which are checked. The 'static ip address' and 'static gateway' fields are empty. The 'power settings' section has checkboxes for 'Allow USB power', 'Always power on when power available', and 'Remember power state', all of which are checked. The 'statistics' section shows various network metrics: 'recv packets' (39158), 'send packets' (3721), 'kbytes' (18674), 'collisions' (0), 'retries' (0), 'resyncs' (0), and 'errors' (0). The 'configuration' is set to 'USB2'. The 'sd card settings' section, which is highlighted with a yellow border, has checkboxes for 'Enable booting from SD card' and 'Enable network access after SD boot', both of which are unchecked. At the bottom, there are 'Save to device' and 'Close' buttons.

Section	Field	Value
ip address	ip address	10.2.22.173
	ethernet address	00-C0-8A-84-86-32
host ip address	host ip address	10.2.12.28
	host ethernet address	0C-9D-92-84-76-1C
device name	device name	E23110048632
	Set default	Set default
ethernet settings	DHCP (via device name)	<input checked="" type="checkbox"/>
	Disable IPv6	<input checked="" type="checkbox"/>
static ip address	static ip address	
	static gateway	
power settings	Allow USB power	<input checked="" type="checkbox"/>
	Always power on when power available	<input checked="" type="checkbox"/>
sd card settings	Enable booting from SD card	<input type="checkbox"/>
	Enable network access after SD boot	<input type="checkbox"/>

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.