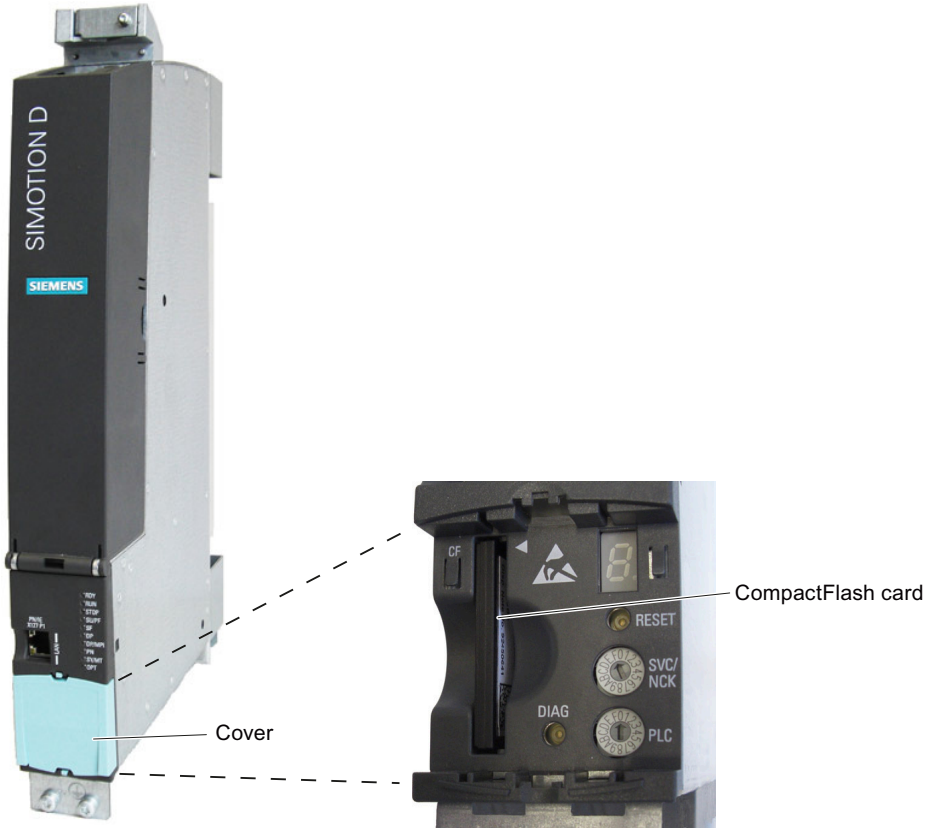
2.8 CompactFlash card

2.8.1 Usage and function of the CompactFlash Card

The CompactFlash card (CF card) is inserted in the slot with the designation CF (X109 interface).



D4x5-2,
Operating elements covered

Operating elements, without cover

Figure 2-10 Slot for CompactFlash card

The CF card does not extend beyond the housing. An ergonomic recessed grip enables the CF card to be removed.

Characteristics of the CF card

The CF card is essential for operation of the SIMOTION D4x5-2. The CF card is not supplied with the SIMOTION D4x5-2 and must be ordered separately.

The SIMOTION Kernel (SIMOTION D4x5-2 firmware) and the software used to control the drives (SINAMICS firmware) are contained on the CF card.

The CF card is used for

- Backing up the technology packages and user data (programs, configuration data, parameter assignments).
- Update (e.g. SIMOTION firmware update).

The licenses for the technology functions are linked to the serial number of the CF card. This means the CF card can be inserted in a different SIMOTION D without having to change the licenses.

The CF card is supplied in a bootable format with the latest SIMOTION Kernel and drive software. Please note that a CF card with a D4x5 kernel/drive software cannot run on a D4x5-2. The same applies for the reverse situation.

If an error occurs, all LEDs flash yellow with 2 Hz. An entry is also made in the diagnostic buffer and the D4x5-2 does not start.

Licenses purchased for SIMOTION D can be used for both the D4x5 and D4x5-2.

NOTICE
Damage to the CompactFlash card from electrical fields or electrostatic discharge
The CompactFlash card is an ESD-sensitive component.
De-energize the SIMOTION D4x5-2 device before inserting or removing the CompactFlash card. The SIMOTION D4x5-2 is in a de-energized state when all the LEDs are off.
Comply with the ESD rules.

Additional information

For additional information about inserting, changing, writing and formatting the CF card, see the *SIMOTION D4x5-2* Commissioning and Hardware Installation Manual.

2.8.2 CompactFlash card

CF card

CF cards with different storage capacities are available for SIMOTION D4x5-2.

- 2 GB CF, article number 6AU1400-2QA20-0AA0
- 1 GB CF, article number 6AU1400-2PA23-0AA0
- 1 GB CF, article number 6AU1400-2PA22-0AA0
- 1 GB CF, article number 6AU1400-2PA21-0AA0

You will find detailed information on the compatibility relationships for the CF card, boot loader version, SIMOTION D hardware and SIMOTION firmware version in the software compatibility list.

This list can be found on the Internet at (https://support.industry.siemens.com/cs/ww/en/view/18857317).

Further technical data

Table 5-14 Fan, non-volatile data backup, and approvals

Data	SIMOTION D425-2 DP SIMOTION D425-2 DP/PN SIMOTION D435-2 DP SIMOTION D435-2 DP/PN	SIMOTION D445-2 DP/PN SIMOTION D455-2 DP/PN
Fan	Double fan/battery module is included in the scope of delivery*	Double fan/battery module is included in the scope of delivery*
• Buffer time, min. • Charging time, typ.	• 4 days (real-time clock backup) • A few minutes	• 4 days (real-time clock backup) • A few minutes

* No battery is included/required in the fan module for SIMOTION D4x5-2 (-0AA2).

If a double fan/battery module is used with included battery, the buffer time of the real-time clock is at least 3 years.

For further technical data such as the max. number of online connections, HMI devices that can be used as well as a list of tasks available in the execution system, see the function overview in the *SIMOTION PM 21* Catalog.

5.6 CompactFlash card/SD card

CompactFlash card

Table 5-15 CF card

Memory capacity	2 GB (Article no. 6AU1400-2QA20-0AA0) 1 GB (Article no. 6AU1400-2PA23-0AA0) 1 GB (Article no. 6AU1400-2PA22-0AA0) 1 GB (Article no. 6AU1400-2PA21-0AA0)
Weight	10 g

SD card

Table 5-16 SD card

Memory capacity	8 GB (Article no. 6AU1400-3SA20-0AA0)
Weight	3 g