

Boost operational reliability and speed

SSD as optional hard disk replacement

Unlike hard disks, solid-state disks (SSD) are storage media in which no rotating parts are installed via the use of semiconductor memory devices. Advantages in addition to much higher mechanical strength are long service life and low energy consumption. In addition, solid-state disks offer significantly faster access times compared to regular hard disks.



The solid-state disk from Intel with 32 GB can be used as an alternative to conventional hard disks in Beckhoff Industrial and Panel PCs.

Various storage media are available for Beckhoff Panel PCs and Industrial PCs. Most PCs are equipped with a 2 1/2- or 3 1/2-inch hard disk and can be equipped as standard or as an option with Compact Flash cards. In addition, the following Beckhoff Panel PCs and Industrial PCs are available with a solid-state disk (SSD):

Panel PCs: CP62xx, CP64xx, CP65xx, CP71xx, CP72xx, C33xx and C36xx

Industrial PCs: C51xx, C61xx, C62xx, C63xx, C6525, C66xx and C69xx

The SSD has a storage capacity of 32 GB. Thus, it is particularly suitable for applications that have to satisfy the following demands:

- | non-rotating medium
- | high read and write speeds
- | long service life
- | high storage capacity

The storage principle is identical in both Compact Flash cards and solid-state disks. However, where 0.5 MB of data per second can be written to a 4 GB CF card for 10 years, it is 10 MB per second in the case of a 32 GB SSD. This is due to the very high read and write speeds of the SSD, which are additionally well above those of a hard disk. Furthermore, as for all CF cards, there is a diagnostic tool for SSD in TwinCAT as proof of operational reliability, with which the quality of the memory and the remaining service life can be calculated easily. A life expectancy of up to 10 years can be expected.