

# Swissbit G-20: Industrial CFexpress Cards



## The Game Changer: Next generation, pluggable high performance PCIe CFexpress 2.0 Type B card series

### Key Benefits

- Industrial grade 3D TLC NAND
- Removable storage medium with the performance as known from PCIe SSDs
- Reduced power consumption (featuring HMB) paired with excellent heat dissipation
- Robustness, data reliability and data integrity over the entire lifetime at changing ambient conditions
- Immunity against sudden power losses and data integrity, even if data has not been accessed for long period of time
- Standard and optional data protection features for enhanced data security

Latest generation of removable storage media offers a unique combination of flexibility, performance, and robustness.



Made in Germany

Available today with capacities up to 480 GB, the CFexpress series features a high-performance interface based on 2-lane NVMe 1.3 and PCIe Gen 3.1 specifications.

The G-20 with 3D TLC NAND is available immediately with storage capacities from 15 to 480 GB (the 1 TB version will be available in the future). Swissbit also provides the G-26 as a pure pSLC version for applications that require continuous writing of small data packets and very long maintenance intervals. In comparison to the G-20, it has a tenfold longer service life.

With its new G-20 series, the company is launching a range of CFexpress 2.0 Type B cards, which are considered the high-performance successor to the CFast standard. CFexpress combines all the advantages of a removable storage medium with the performance of PCIe-SSDs, all housed in a robust casing.

It opens the door to a wide range of applications ranging from industrial automation and gaming to transportation and medical technology as well as applications where thermal management is critical.

Available with capacities up to 1 TB, the new CFexpress series features a high-performance interface based on 2-lane NVMe 1.3 and PCIe Gen 3.1 specifications. In addition to variants with 3D TLC NAND (G-20), Swissbit offers a pSLC version (G-26).

The type B housing of the CFexpress 2.0 provides exceptional mechanical protection against environmental influences. Designed for industrial use, Swissbit's G-20 is specially engineered for efficient heat dissipation.

## Key Applications

- Casino Gaming
- Medical Monitoring
- Industrial Automation
- Data Logging
- Edge Computing
- High-end Imaging
- Military and avionics
- Transportation

| Name                  | G-20   | G-26         |
|-----------------------|--|--------------|
| Interface Protocol    | PCIe Gen 3.1 x2<br>NVMe 1.3  |              |
| Connector             | CFExpress  |              |
| Flash Type            | 3D NAND TLC  | 3D NAND pSLC |
| Density Range         | 15 - 960 GB  | 5 - 320 GB   |
| Endurance [DWPD]      | up to 2.7  | up to 100    |
| Operating Temperature | Commercial: 0°C to +70°C<br>Industrial: -40°C to +85°C   |              |
| Storage Temperature   | -40°C to +100°C  |              |
| Performance           | Sequential Read / Write up to 1,600/ 830 M/Bs<br>Random Read / Write up to 128,000/ 131,000 IOPS |              |
| Voltage               | 3.3V   |              |

### About Swissbit

Swissbit AG is the leading European manufacturer of storage, security and embedded IoT solutions for demanding applications. As trusted partner Swissbit empowers the digital and connected world by reliably storing and protecting data in industrial, security and IoT applications.