PRESS RELEASE

Swissbit Announces Launch of CFexpress 2.0 G-20 Card Series

Industrial CFast successor

Westford, MA USA. August 26, 2020 – Swissbit announces the launch of CFexpress 2.0 Type B cards that offer highest reliability, performance and data protection features that meet top industrial grade requirements. Named as "G-20" for the cards with 3D-TLC-NAND and "G-26" for the pSLC version, the fast and pluggable storage media will be available from the end of 2020. The latest memory card series offers capacities of up to 480 GB and a high-performance interface in accordance with 2-lane NVMe-1.3 and PCIe-Gen 3.1 specifications. It is aimed at a wide range of applications in the fields of industrial automation, gaming, transportation, and medical technology. The robust memory media combine the flexibility of Swissbit memory cards with the read-write performance of PCIe SSDs.

CFexpress is hailed as the successor of the established Compact Flash and CFast-standards, created by the CompactFlash Association. Originally developed for high-end photography and other consumer applications, Swissbit has now applied the storage format to its latest products for use in demanding industrial applications. The CFexpress 2.0 Type B casing offers excellent mechanical protection in harsh environments. The gold-plated pins are completely covered and shielded from any form of contact, therefore offering protection from dust or moisture penetration, and at the same time, making the cards resistant to any vibration. Thanks to the NVMe-1.3 interface, a proven technology for other industrial SSD form factors such as M.2 or U.2, the G-20 series achieves up to 1620MB/s for sequential read operations, and 840MB/s for sequential write operations. For random accesses, it exceeds 128000 and 131000 IOPS for read and write operations respectively. CFexpress is a significant technology advancement when compared with a read data rate of 120MB/s for Compact Flash cards and 520MB/s for CFast.

Swissbit Promotes Adoption

"As an established supplier of Compact Flash cards and one of the first advocates of the CFast standard, the next logical step for Swissbit is to manufacture and supply exchangeable memory cards with the latest interface standard. We believe that this form factor will have a high value for customers who need to quickly replace or upgrade memory in the field. We are convinced that this format will prove to be an industry-wide 'game changer'", explains Roger Griesemer, General Manager Memory Solutions at Swissbit AG.

As an industrial flash memory, the G-20 series was developed specifically for efficient heat dissipation. Combined with sophisticated firmware mechanisms,

this allows for its use in high-temperature environments and fanless systems. To achieve low power consumption without sacrificing performance, G-20 eliminates the need for a local DRAM cache by using the HMB (Host Memory Buffer) function and uses the system DRAM memory for FTL management. Special data maintenance functions provide additional protection of stored data at high operating temperatures.

Extra-Endurance

For applications that require a particularly long product life, continuous writing of small data packets or very long maintenance intervals, Swissbit offers the G-26 version, which uses pure pSLC mode to achieve a tenfold longer life span compared to the G-20.

Security Functions

The Swissbit-G-20 has a variety of standard and optional data protection features, including end-to-end data protection that ensures the full integrity of internal data paths. TCG Opal can be ordered as an option and provides additional data protection towards the host system. AES-256 encryption guarantees security for intellectual property, licenses or other sensitive data. This includes applications where device settings and configurations need to be transferred from device to device while ensuring that they are reliably protected. The new series supports the Swissbit Life Time Monitoring Tool as well as the S.M.A.R.T. commands, thus enabling the user to monitor the status of the memory card and to define a strategic replacement plan.

Available images

The following images are available for download in printable format at:
http://www.htcm.de/kk/swissbit

Image Source: Swissbit

CFexpress 2.0 G-20 Card Series

Image Source: Swissbit

Memory card series with capacities up to 480GB and high-performance interface in accordance with 2-lane NVMe 1.3 and PCIe Gen 3.1 specifications

About Swissbit

Swissbit AG is the only independent European manufacturer of storage and embedded IoT solutions for demanding applications. Swissbit combines its unique competences in storage and embedded IoT technology with its advanced packaging know how. This expertise allows our customers to reliably store and protect data in industrial, NetCom, automotive, medical and finance applications as well as across the Internet of Things (IoT).

Swissbit develops and manufactures industrial-grade storage and security products "Made in Germany" with long-term availability, high reliability and custom optimization.

Swissbit's storage range includes SSDs with PCIe and SATA interface such as mSATA, Slim SATA, CFast™, M.2 and 2.5" as well as CompactFlash, USB flash drives, SD, micro SD memory cards and managed NAND BGAs. Security products for embedded IoT applications are available in various application specific editions as USB flash drives, SD, and micro SD memory cards.

Swissbit was founded in 2001 and has offices in Switzerland, Germany, USA, Japan and Taiwan.

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