SC3-LARGO • *CompactPCI*® Serial CPU
5th Generation Intel® Core™ Processor

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*EKF introduces the **SC3-LARGO**, a rich featured high performance CompactPCI® Serial CPU board, equipped with a 5ᵗʰ generation Intel® Core™ processor. The powerful quad core CPU contains in addition an advanced graphics controller. The SC3-LARGO 4HP front panel is provided with two Gigabit Ethernet jacks, two USB 3.0 receptacles, and two mDP connectors (DisplayPort 1.2 MST, 4k UHD). Local expansion mezzanine cards are available for additional I/O, configured as an 8HP F/P assembly. The generous memory capacity of up to 32GB ECC RAM is divided in a soldered half, and an SODIMM module.*

As mass storage device, several low profile mezzanine modules are available, either M.2 (NGFF) SSD, Micro SATA, mSATA or CFast™ based. In addition, the on-board SATA 6G RAID controller allows for powerful mass storage solutions via the CompactPCI® Serial backplane. With four Gigabit Ethernet controllers, the SC3-LARGO is optimized for demanding IoT networking applications, including IEEE 1588 (Precision Time Protocol). A TPM 2.0 module is provided - the highest level of certified platform protection. The UEFI firmware supports Secure Boot and Measured Boot, and the processor accelerates encryption via AES-NI.

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SC3-LARGO w. Dual M.2 SSD Mass Storage Mezzanine Module

The SC3-LARGO is equipped with a set of high-speed local expansion interface connectors, which can be optionally used to attach a mezzanine side board. A variety of expansion cards is available, e.g. providing legacy I/O such as RS-232, and additional PCI Express® based I/O controllers such as SATA, USB 3.0 and Gigabit Ethernet, and also a third video output. Most mezzanine side cards can accommodate in addition a 2.5-inch drive. Typically, the SC3-LARGO and the related side card would come as a readily assembled 8HP unit.

The SC3-LARGO is a native CompactPCI® Serial CPU card, suitable for usage in a pure CompactPCI® Serial environment. Due to its generous backplane capabilities (22 x PCI Express® lanes, 6 x USB, 7 x SATA/RAID, 2 x GbE), very powerful industrial systems can be built. EKF offers also ready to use CompactPCI® Serial systems for the SC3-LARGO. The SRS-BLUBOXX e.g. accommodates up to four CPCI-S peripheral cards in addition to the CPU board, well suited as a rugged solution for many industrial applications.

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8HP Assembly SC3-LARGO w. Side Card

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SC3-LARGO & SRS-BLUBOXX

SC3-LARGO Links	
Home	www.ekf.com/s/sc3/sc3.html
Photos	www.ekf.com/s/sc3/img/