



PERFECTRON, with deep insights into the embedded market, has strived to provide rugged solutions for all spheres. Over the years, we have expanded our client base to a broad range of industries. Mission-critical applications like aviation, space exploration, and defense mechanism rely heavily on the reliability and sustainability of each component. PERFECTRON has developed a series of precision-aimed solutions in response to the critical needs of the ever-advancing embedded market.

Critical Components Soldering Onboard

To achieve high standard of shock and vibration demand, PERFECTRON's embedded boards are designed with the key components soldering onboard to eliminate the risk of harm caused by vibration, including CPU, uSSD and XR-DIMM. This design enhances the resistance to shock and vibration and eliminates the concern about failed connection caused by sudden impact. The robustness is not only compliant with but surpassing the strict standard. PERFECTRON embedded boards are ready to meet all the unforeseeable rugged challenges!



Stackable Ruggedness PCIe/104 (StackPC) & FPE Expansion

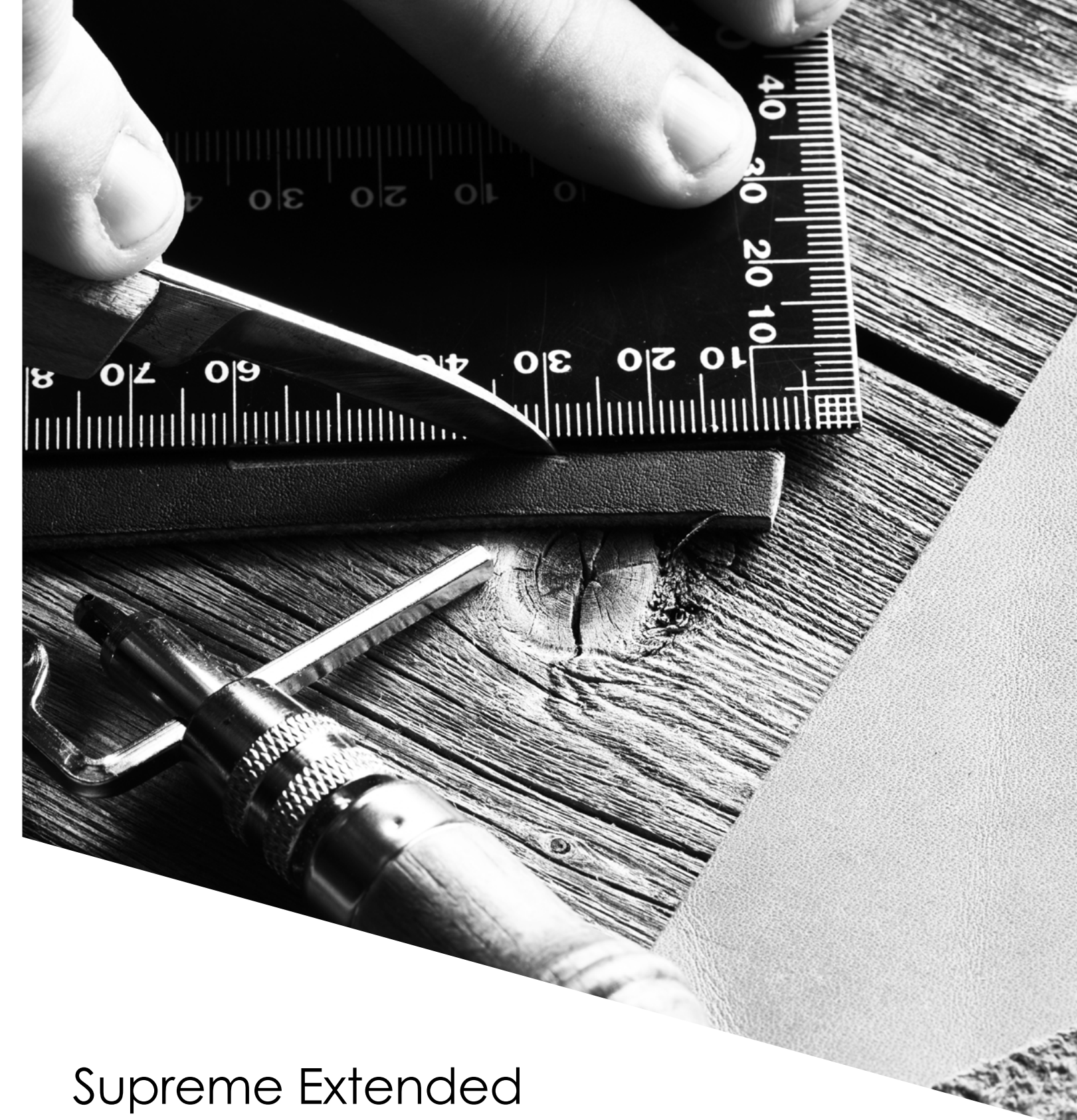
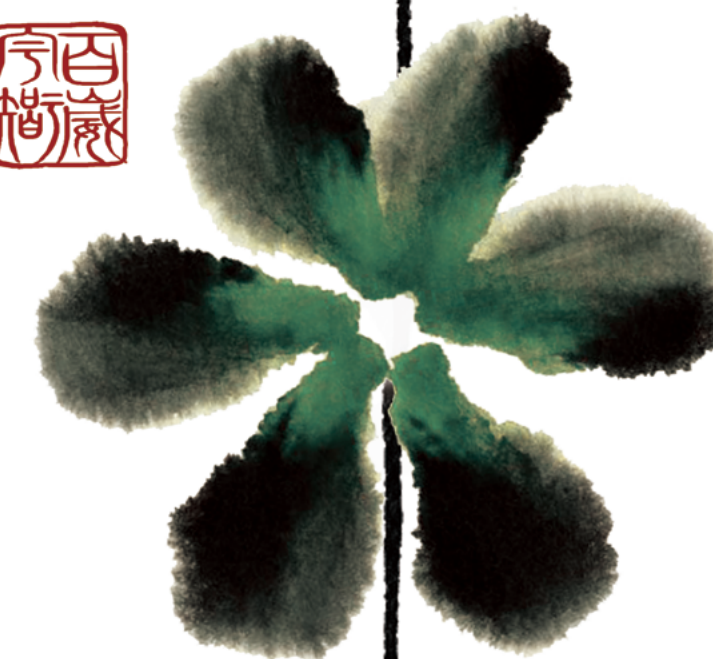
PERFECTRON offers flexible options in terms of I/O requirements as well as different industrial applications. By utilizing onboard PCIe/104 and FPE expansions, users can instantly access to a variety of features and simply build up an exclusive system based on users' own requirements to cater diverse industrial usage. PERFECTRON has developed storage module, expanded LAN module and PSU module that supports full compatibility with other off-the-shelf products in the market. PCIe/104 connector delivers exceeding solidity with its mounting holes which removes the concern about loosen connection caused by shock & vibration. The flexibility and ruggedness are exceedingly enhanced to adapt a diversity of needs in the vertical market.

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PERFECTRON

Rugged Embedded Boards
Product Catalog

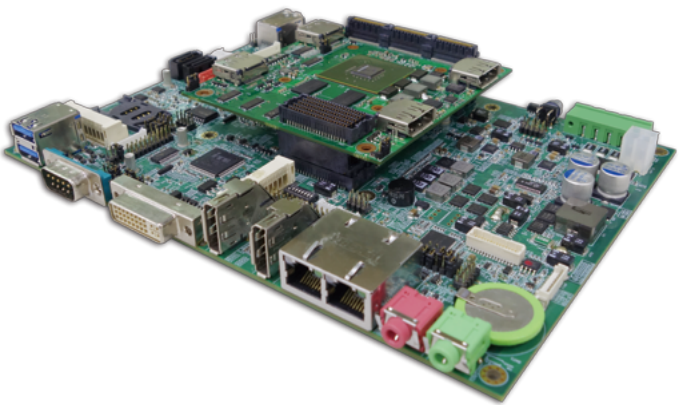


Supreme Extended Temperature Solution

PERFECTRON is an expert who provides extended temperature fanless solution. With years of experiences, we have developed a complete and integrated extended temperature design principle. PERFECTRON strictly selects and tests those critical components at the very beginning, then optimizes the layout and power circuit to the utmost. Viewing the configurations and the power circuit placement of each model are different, which will lead to different extent of heat generation; therefore PERFECTRON designs tailor-made heat sink for each motherboard. All the boards are tested to be able to operate effectively under harsh environments from -40 to 85°C without CPU throttling.

OXY5737A -40°C / $+85^{\circ}\text{C}$

Intel® QM87 EBX SBC, Core™ i7/i5/i3
Haswell CPU & SSD Soldering Onboard,
Stackable with PCIe/104 & FPE Expansion

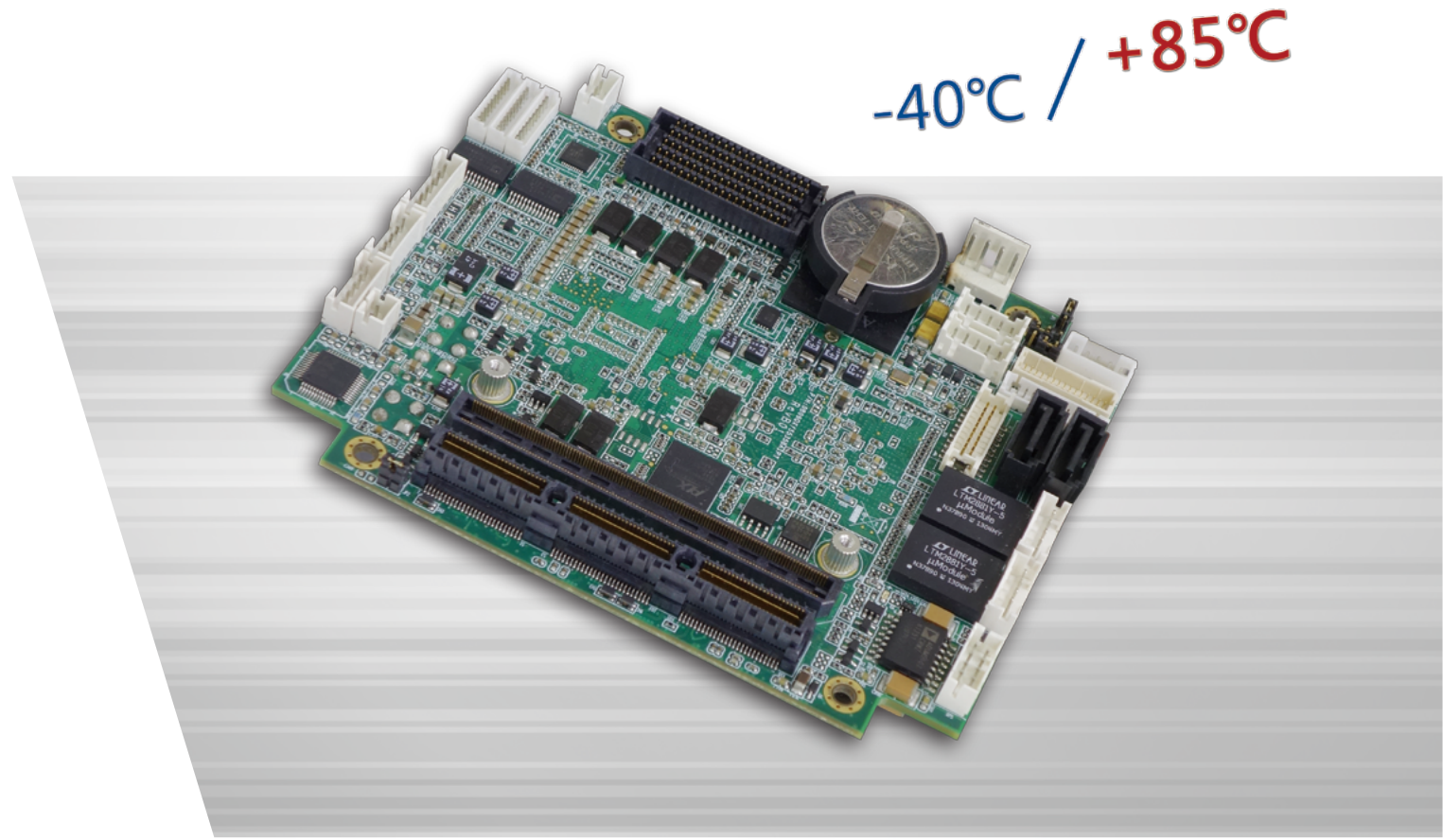


Rich I/O for flexibility in I/O configurations

OXY5737A embraces rich I/O that provides embedded system developers diverse flexibility in I/O configurations to meet different embedded applications. The rich I/O features multiple displays, 2 x DP and DVI-I display connectivity ports with dual channel 24-bit LVDS. The stackable expansion enables a cable-free board to build an extreme rugged and compact system with more expansion flexibility. This I/O-rich board also includes four RS232, two RS232/422/485, six USB ports, two Gigabit LANs, two SATAIII, all these can help system integrators to develop solutions quickly.

OXY5535B

Intel® QM77 PCIe/104 SBC, Core™ i7 Ivy Bridge CPU & SSD
Soldering Onboard, Stackable with PCIe/104 & FPE Expansion



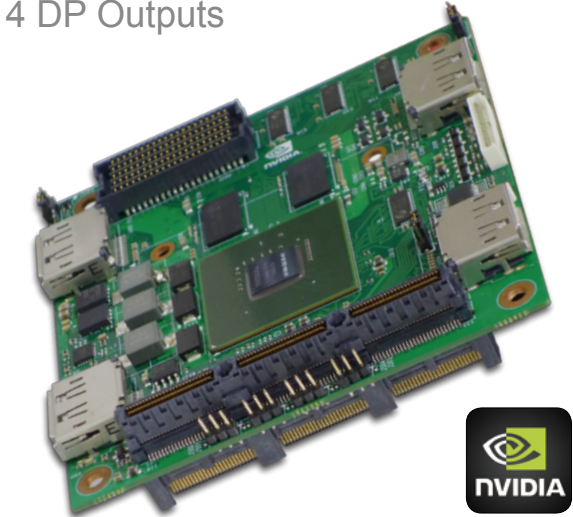
Stunning resistance of shock and vibration

OXY5535B has key components soldered onboard to eliminate risk of harm caused by vibration. It not only supports Intel CPU onboard but also storage onboard and XR-DIMM which drastically enhance the resistance of vibration and shock. The stackable expansion slots, PCIe/104 (StackPC) and FPE (PCIe x 16) enable to expand more functions by adding on extra cards. The cable-reduced operation removes the concern about loosen cable connections and strengthens the robustness.



SK210

PCIe/104 (StackPC-FPE) NVIDIA GeForce® GT730M Graphic Module for 4 DP Outputs



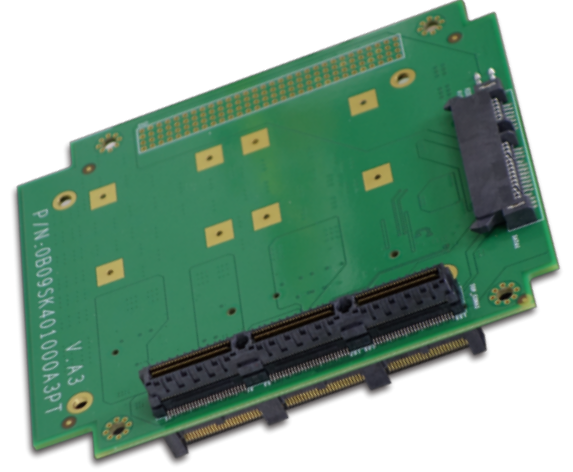
SK506

PCIe/104 (StackPC-FPE) Expand 4 Extra 10/100/1000 mbps Gigabit Ethernet



SK401

PCIe/104 (StackPC) SSD/ mSATA Storage Carrier



SK704

PCIe/104 (StackPC) 105 watt DC/DC PSU Module

