



Press Release

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Pentair offers configurable solutions to reduce development costs and time

Schroff small form factor solutions

STRAUBENHARDT – Pentair, a global leader in protecting critical processes, people and the environment, has developed a new concept which enables design engineers to quickly create customized solutions to house and protect their small form factor boards, while minimizing development costs and lead time. Using a modular approach design, engineers can specify their enclosure, cooling, peripheral components, and mounting method based on the needs of their specific application. Each building block can easily be configured and combined, resulting in a customized solution ready for manufacture.

The design starts with Pentair's innovative Schroff Interscale enclosure, which features integrated EMC protection, requires only two screws for assembly, and has flexible height, width, and depth dimensions. For customers working with Industrial PC board standards such as MiniITX, ATX, embeddedNUC and others, the cut-outs have been prepopulated in the design to save time.

The cooling module includes options for conduction and convection cooling. FHCs (flexible heat conductors) provide industry leading conduction cooling performance and design engineers have options for heat sink height and orientation. For convection cooling, one and two fan configurations are available, with a variety of fan location and perforation options. Compatible components including industrial grade power supplies, power switches and indicators, and hard disk drive brackets are available. The enclosure can be completed with wall/desk brackets, DIN rail clips, tip up or rubber feet.

For those customers interested in Computer on Module (COM), Pentair also offers a complete Embedded COM system including the COM module and the carrier board. This concept is also modular: For example, a wide range of fieldbus connections can be implemented using a pluggable add-on module. Using the XMC slot, FPGA mezzanines or processor modules can be connected to the

Pentair Contacts:

Pentair Electrical
Pentair Technical Solutions GmbH, Jasmin Gölzenleuchter, 75334 Straubenhardt, Germany, Phone: +49 70 82 794-542, Fax: +49 70 82 794-679, Jasmin.Goelzenleuchter@pentair.com, www.pentairprotect.com

Weil PR & Kommunikation, Christa Weil, Birkenstraße 5, 65468 Trebur, Germany, Phone: +49 61 47 20 93 44, Fax: +49 61 47 20 93 45, info@weil-PR.de, www.weil-PR.de

COM module via the carrier or a custom circuit can be established on the prototype module. The power module is also designed as a pluggable module, making it easy to adapt to different line voltages and power outputs. For integrated system solutions the Pentair project management group supports customers directly.

Image caption: Small form factor solutions configured from modular building blocks



Further information available at

<https://schroff.pentair.com/de/schroff/Single-Board-Gehause>

About Pentair Electrical

Pentair Electrical is a leading global supplier of systems and solutions that safeguard industrial controls, electrical components, communications hardware, electronic devices, and electrical cooling systems. Its premier brands CADDY, ERICO, Hoffman, LENTON, Raychem, Schroff, and Tracer provide a comprehensive range of standard, modified, and custom-engineered solutions for the energy, industrial, infrastructure, commercial, communications, medical, security, and defense markets.

The Schroff brand offers an extensive portfolio of accessories for protecting printed circuit boards, such as card retainers, conduction-cooled board supports, front panels and handles, subracks, cases, backplanes, power supplies, cabinets and pre-assembled chassis for embedded computing systems as well as hardware management systems. For further information, please visit www.pentairprotect.com

About Pentair plc

Pentair plc (www.pentair.com) provides leading products, services and solutions industry-wide for the many different requirements of its customers in the fields of water and other fluids, thermal management and equipment protection. With 2016 revenues of \$4.9billion, Pentair employs around 26,000 people worldwide.

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Pentair Contacts:

Pentair Electrical

Pentair Technical Solutions GmbH, Jasmin Gölzenleuchter, 75334 Straubenhardt, Germany, Phone: +49 70 82 794-542, Fax: +49 70 82 794-679, Jasmin.Goelzenleuchter@pentair.com, www.pentairprotect.com

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