

# Backplanes

## OUTSTANDING SIGNAL INTEGRITY FOR MAXIMUM DATA TRANSMISSION RATES



nVent offers standard backplane families in accordance with the VITA and PICMG standards like CompactPCI, CompactPCI Serial, VME and VPX. SCHROFF backplanes exhibit outstanding signal integrity and are designed for the highest data transmission rates. CompactPCI Serial backplanes support PCIe Gen 3 and VPX backplanes Rapid I/O up to 6.25 Gbaud. Our backplanes can be delivered with a protective coating (conformal coating) upon request. nVent also offers customized backplanes based on the standard product portfolio.

### SPECIAL FEATURES OF SCHROFF BACKPLANES

- The new CompactPCI Serial, 32 and 64-bit CompactPCI backplanes, as well as combinations of CPCI Serial and CPCI, are available with different numbers of slots for 3U and 6U boards
- PSB and H.110 versions for communication applications
- CompactPCI bridges and secondary CompactPCI backplanes for applications with more than 8 slots
- PXI backplane family with bridges for measurement and control technology
- A wide range of VME and VME64x backplanes with different numbers of slots and in different versions for 3U and 6U boards
- VPX and VXS backplanes for applications according to the newest VITA specifications
- Universal and power backplanes for diverse applications

### IMPORTANT INFORMATION ABOUT BACKPLANES

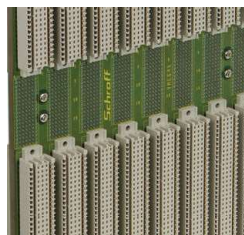
A backplane is the electrical interface in a modular system. The individual boards of a system are connected to the backplane, which in turn includes the data bus. In older technologies like VMEbus or CompactPCI, this was a parallel bus structure with a bus width of 32 or 64 bits. New technologies like CompactPCI Serial or VPX use point-to-point connections according to the LVDS (Low Voltage Differential Signaling) standard instead. The backplane also supplies the boards with current from the power supply.



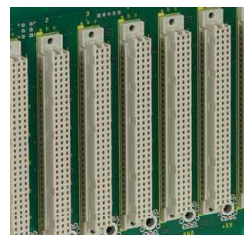
CPCI Serial



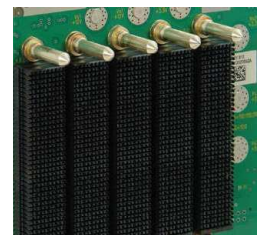
CPCI



VME64x



VME



VPX