



3M™ MetPak™ HSHM Press-Fit B19 Connectors

Legacy VERSAmodule Eurocard (VME) and CompactPCI (cPCI) systems cannot support newer high speed serial I/O protocols such as PCI Express or RapidIO without a forklift upgrade to the backplane. Standards allow faster speeds, but current high speed connectors are not backward compatible with 5 row 2 mm hard metric connectors on legacy VME64x with VITA31 and PICMG 2.16 backplanes.

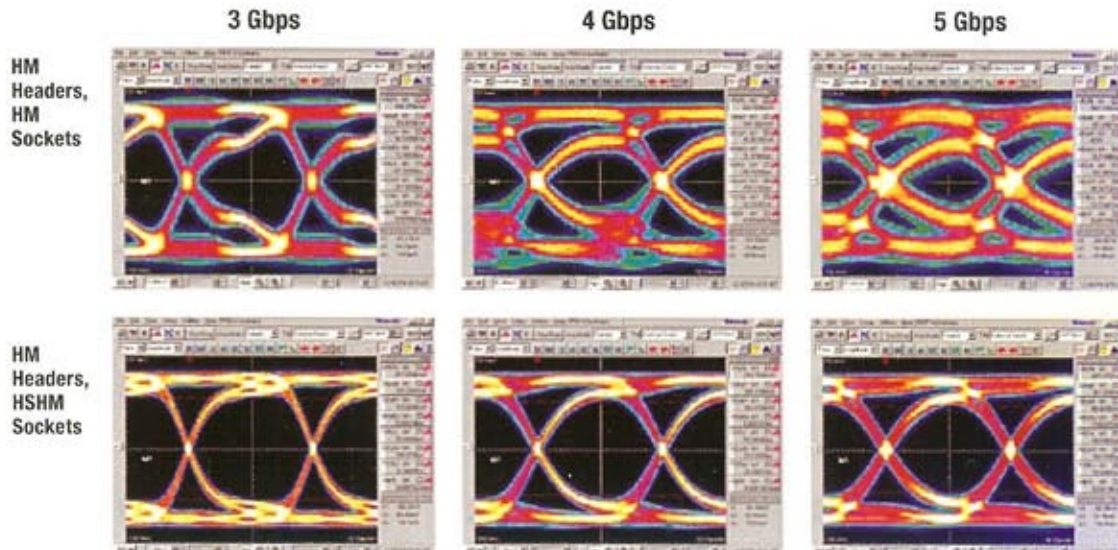
What if you could supercharge legacy VME and cPCI backplanes to 5 Gbps without disruptive and expensive backplane redesign and a forklift chassis upgrade? 3M™ MetPak™ High Speed Hard Metric (HSHM) Press-Fit B19 Connectors are designed to resolve this problem and provide a cost-effective upgrade to higher speed. With speeds up to 5 Gbps, 3M MetPak HSHM B19 fully shielded connector mates with 2 mm 5 row cPCI / hard metric headers; connectors P0 on VME64x with VITA31 and P3 on cPCI with PICMG 2.16. Full pin-to-pin compatibility can be maintained with existing VME and cPCI backplanes. A performance improvement up to 3X can be obtained by using daughter cards with MetPak HSHM B19 sockets mated to standard 5 row 2 mm hard metric headers.



3M™ MetPak™ HSHM Press-Fit Socket



3M™ MetPak™ HSHM Press-Fit Header



- Typically HM connectors are not used in applications above 1 Gbps.
- HM headers mated to HSHM sockets provide tremendous improvement in eye opening and jitter up to at least 5 Gbps.

3M™ MetPak™ HSHM Press-Fit B19 Connectors provide:

- Data rates up to 5 Gbps
- Low crosstalk at high frequencies
- True signal density: 5 row 63 mated pairs per linear inch
- 50/100 ohm (single-ended / differential) impedance
- Selective shielding in rows and/or columns
- Industry standard format for hard metric (IEC 61076-4-101)
- Dual beam contact construction for high reliability

