

CompactPCI Express brings PCI Express technology to the popular PICMG 2.0 CompactPCI form factor, while maintaining compatibility with CompactPCI hardware and software.

The ERmet B8 connectors are designed in accordance with the standard PICMG EXP.0 CompactPCI Express. This completes the family of CompactPCI connectors supplied by ERNI (Signal: ERmet ZD, ERmet B8; Power: ERmet Power Module).

The ERmet B8 enriched hard metric (eHM) connector is used for carrying I/O signals and some power. The connector is keyed and four different key combinations are possible. All combinations support Hot Swap functions. The eHM connector (ERmet B8) with coding for reliable mating is available as a 56 pin male connector (40 signal contacts and 16 additional shield blades) as well as 40 pin female connector.

Features

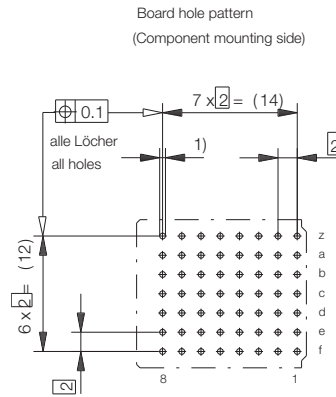
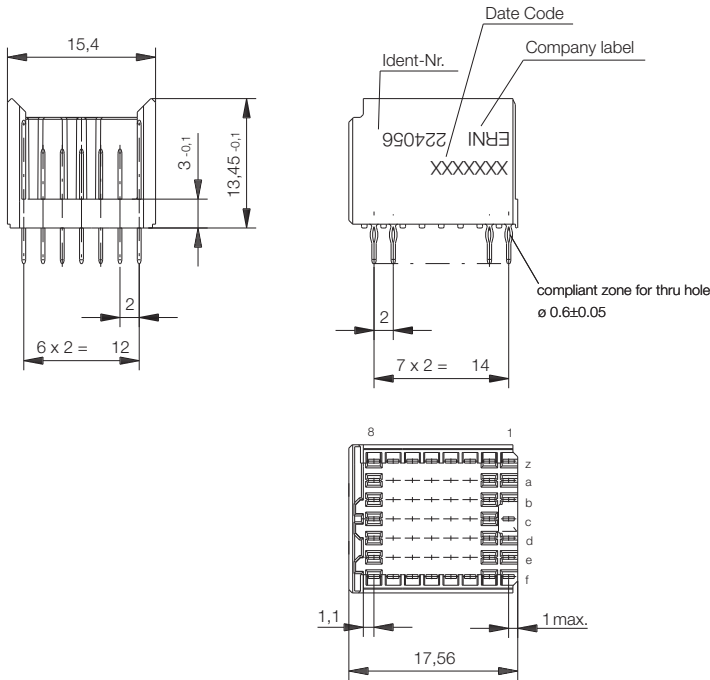
- Pitch: 2.0 mm
- Number of pins:
 - Male connector: 56 (40 signal and 16 shield)
 - Female connector: 40
- Pressfit termination
- Housing material:
 - Male Connector: PBT
 - Female Connector: LCP
- Performance class 2
- Tray packaging
- According to CompactPCI Express standard

CompactPCI® Express

ERmet B8 - CompactPCI Express Connectors

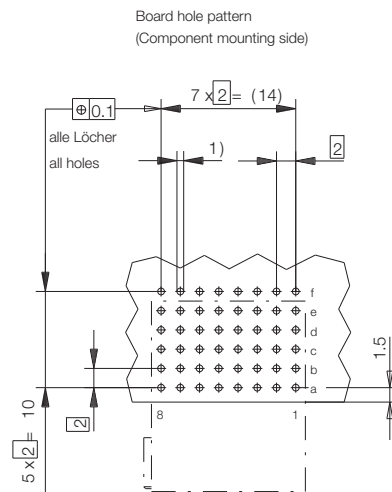
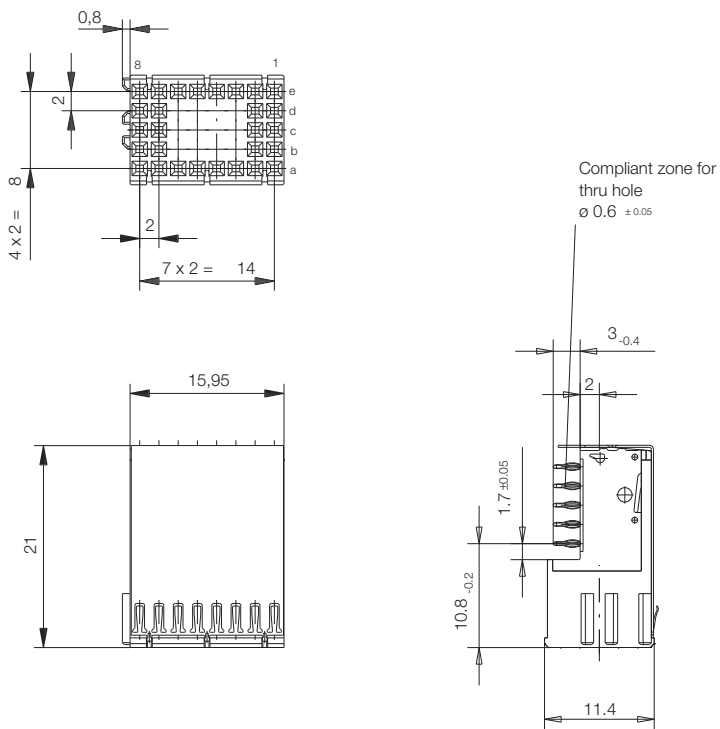
Dimensional Drawings

Male Connectors



- 1) $\varnothing 0,6 \pm 0,05$ Diameter of finished plated-through hole
- $\varnothing 0,7 \pm 0,02$ Diameter of drilled hole

Female Connectors



- 1) $\varnothing 0,6 \pm 0,05$ Diameter of finished plated-through hole
- $\varnothing 0,7 \pm 0,02$ Diameter of drilled hole



ERmet B8 - CompactPCI Express Connectors

Ordering Information

Male Connectors

Configuration	Number of Signal Pins	Termination	Slot Type	Keying Designator	Part Number
Type B8 Non-staged	40	Pressfit	RI/O or no RI/O or no Bussed I/O	M1	224056
Type B8 Non-staged	40	Pressfit	PXI	M2	224057
Type B8 Staged (Hot-swap)	40	Pressfit	RI/O or no RI/O or no Bussed I/O	M1	204976
Type B8 Staged (Hot-swap)	40	Pressfit	PXI	M2	214431
Type B8 Staged (Hot-swap)	40	Pressfit	RI/O or not used	M5	224312

Female Connectors

Configuration	Number of Signal Pins	Termination	Board Type	Keying Designator	Part Number
Type B8	40	Pressfit	RI/O	F1	204975
Type B8	40	Pressfit	PXI	F2	214443
Type B8	40	Pressfit	no RI/O or Bussed I/O	F5	214444
Type B8	40	Pressfit	PXI	F2	224302