

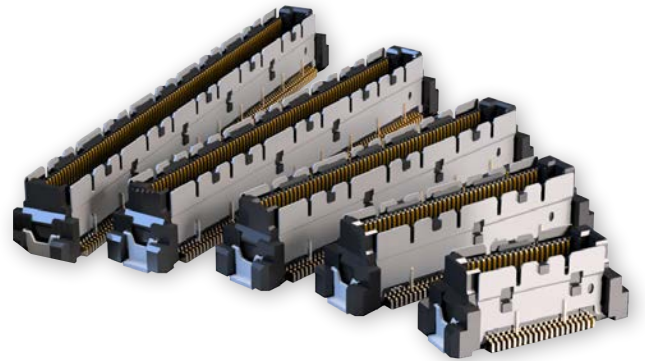
Colibri®

High Speed up to 25+ Gbps

Small, Fast, Reliable

Colibri® is a shielded, two-row SMT connector system with a pitch of 0.5 mm, which is especially suitable for applications with high data transmission rates.

The product is available in different speeds, starting at 10 Gbps through 16 Gbps and up to 25 Gbps in the highest configuration. In addition to the available pin counts of 40, 80, 120 and 160, the versions with 220 and 440 contacts are primarily used for the now widespread COM Express® applications.



SMT



Parallel
5 or 8 mm



High Speed



High Density



EMC



INFOTAINMENT



MEASUREMENT TECHNOLOGY



EMBEDDED



POINT OF SALE

COM  Express®

COM Express® is a specification developed by PICMG for x86-based Computer-on-Modules (COM). The basic concept of plugging a COM module onto a carrier board offers the advantages of reducing development times and costs. In addition, the life cycle of products can not only be extended but also upgraded by plugging newer COM Express modules with higher performance onto the carrier board.

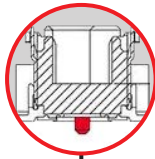
The Colibri connectors offered by ept are specified in the PICMG® design guide and the COM.0 specification. In addition, the 16+ and 25+ versions of Colibri® are suitable for applications requiring higher data transfer rates, in particular 16+ for PCI Express Gen. 4 and 25+ for 100 Gigabit Ethernet or USB 4.0.

Our Colibri Video:

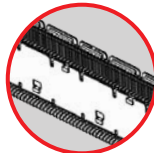
<https://youtu.be/rBry52V774Y>

Guide Posts

anti-twist protection during positioning on the printed circuit board



Area for Pick-and-Place
secure placement on the printed circuit board

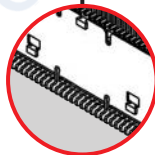


Coplanarity
process-safe soldering during manufacturing



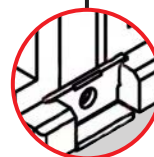
EMC Shielding

electromagnetic compatibility for optimal signal integrity

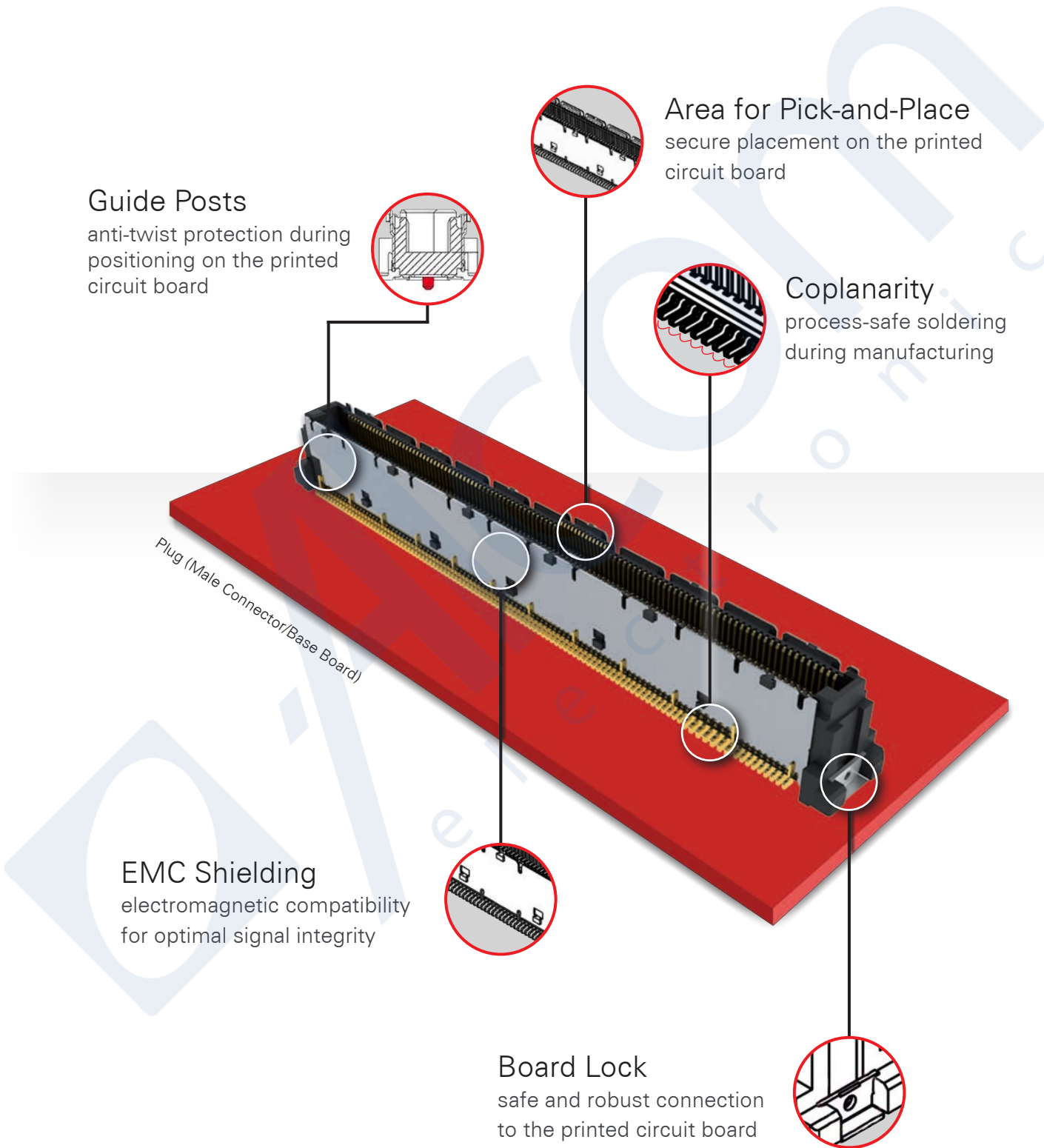


Board Lock

safe and robust connection to the printed circuit board

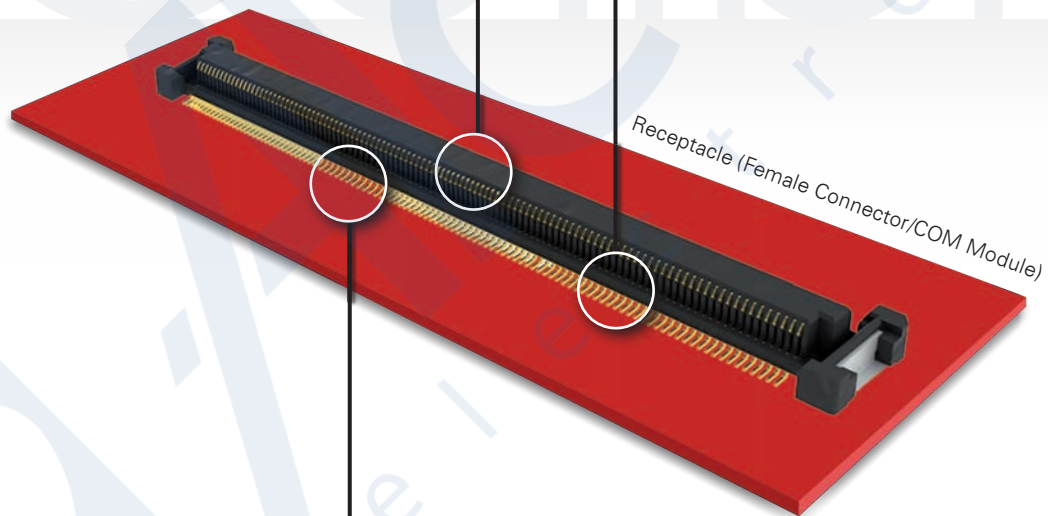


Plug (Male Connector/Base Board)



Area for Pick-and-Place
secure placement on the printed circuit board

196 Signal and
24 Ground Pins
high density of signal contacts



0.5 mm Pitch
small space requirements
on the printed circuit board



Other Features:

- Packaged in tape and reel or alternatively in tray
- Plug-in compatibility with other manufacturers
- SI models and extensive test reports available
- Plug optionally available with pick-and-place cap