



HighSpeed edge card connections up to 28 Gbps

The edge card connector principle enables data transmission rates of up to 28 Gbps.

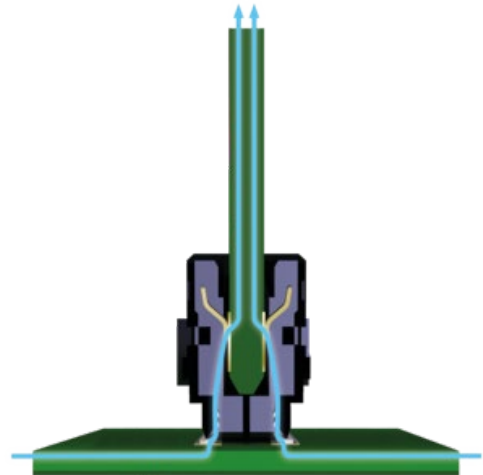
Features:

- Edge card connector
- 20 to 200 contacts
- 28 Gbps data transmission rate
- 3.2 A current carrying capacity
- 500 insertion cycles
- Packed in tape & reel, tray
- 1.60 mm daughter card thickness

Applications:

Embedded

- Industrial Automation
- Datacom

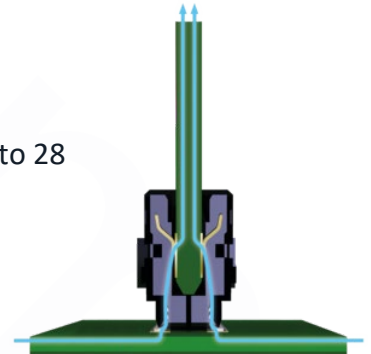


EC.8: Direct connector system with high speed at its core

The edge card connector principle enables data transmission rates of up to 28 Gbps.

Edge card connectors have shorter transfer pathways and fewer cross section changes which enhances the signal. A direct contact reduces the resistance and influence on the signal. This positively affects the current capacity and data transfer properties. A lower resistance defines the edge card connection when compared to a similar connector pair.

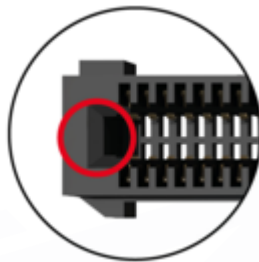
A detailed report on the high-speed properties as well as simulation parameters for simulating your own design are available on request.





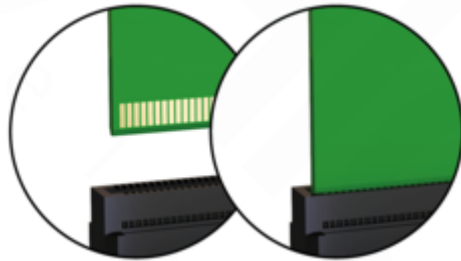
EC.8: Direct connector system

detail overview



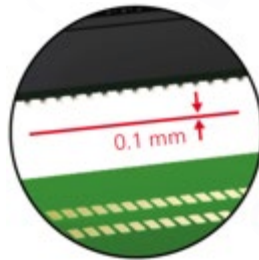
insertion chamfer

for compensation of misalignment and angular inclination



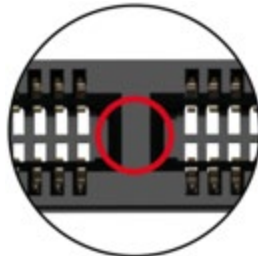
acoustic and haptic feedback

to secure an accurate connection with the edge card



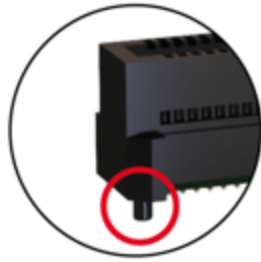
coplanarity

soldering under controlled process conditions



coding bay

anti-twist safeguard and tolerance compensation for the edge card

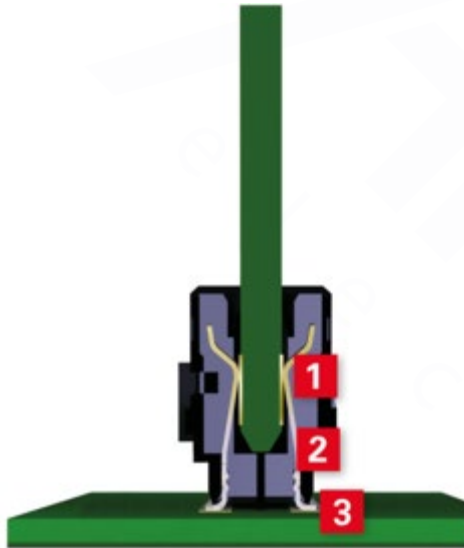


misalignment pins

prevents misalignment on the board

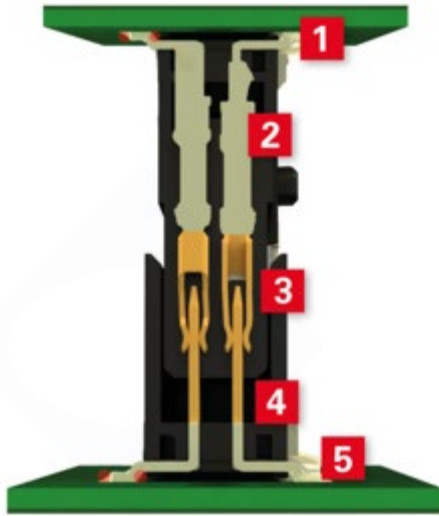
Edge card connector versus connector pair

The edge card connector enables direct contacting of the PCB without a corresponding mating connector. In comparison to a conventional connector pair, there are fewer contact points and transitions resulting in a positive effect on current carrying capacity and data transmission properties.



Edge Card Connector:

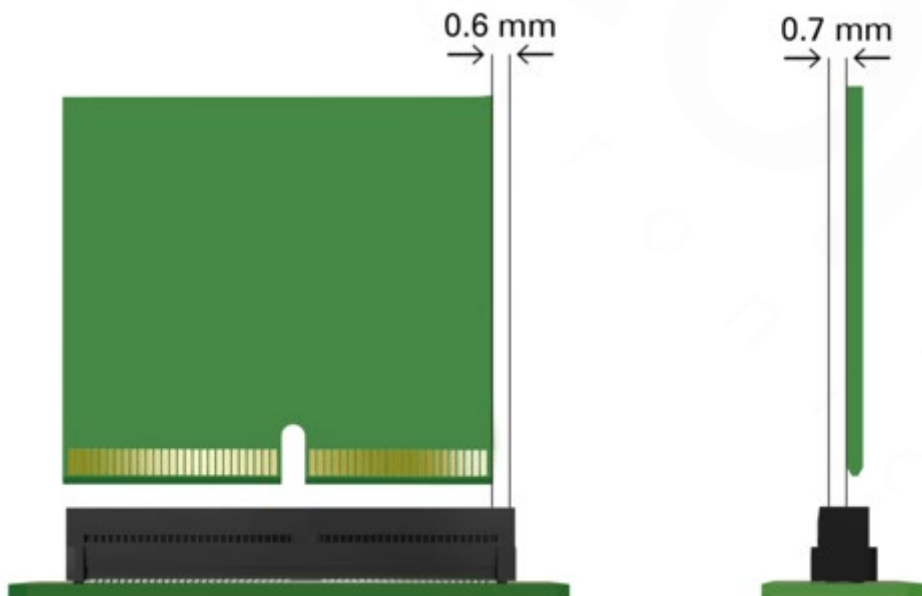
- [1] R Contact junction
- [2] R Contact
- [3] R PCB connection



Connector Pair:

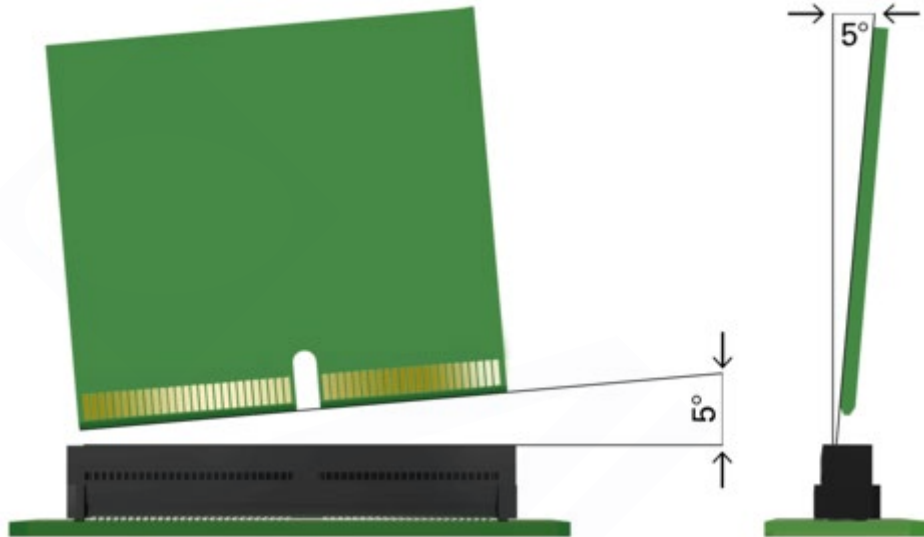
- [1] R PCB connection
- [2] R Contact
- [3] R Contact junction
- [4] R Contact
- [5] R PCB connection

Tolerances



Center offset in EC.8 edge card connectors
Permitted center offset tolerances

The EC.8 SMT edge card connectors tolerate an offset of 0.6 mm in the longitudinal axis and 0.7 mm in the transversal axis during insertion.



Angular offset in EC.8 direct connectors

Permitted angular offset tolerances

With the EC.8 edge card connectors, the daughter card can be inserted in the EC.8 at an angle of up to 5° in the longitudinal axis and transversal axis.