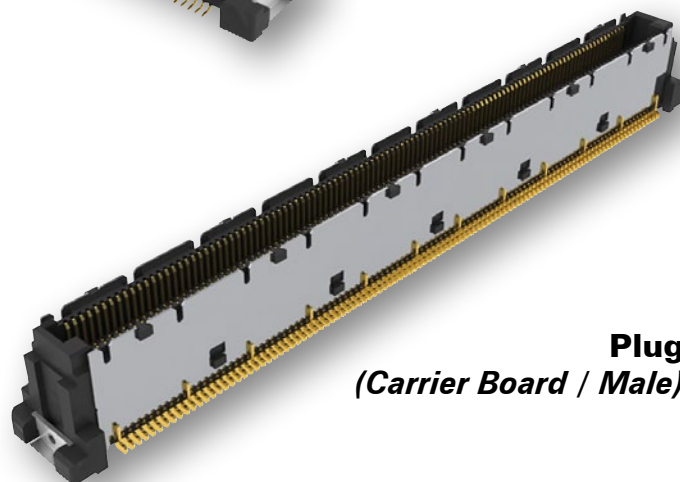


Receptacle
(COM Module / Female)



Plug
(Carrier Board / Male)

Colibri® for COM Express®

ept's **Colibri®** connector is a shielded, 2-row, SMT interconnect system in 0.5 mm pitch.

Both connectors, Plug and Receptacle, are available with 8 mm stacking height and either 220 or 440 pins. They are designed to meet requirements according to specifications not only of PICMG COM Express®, but also of SFF-SIG Core Express®. Furthermore **Colibri®** products are compatible with all common connectors available on the market.

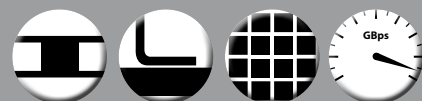
Additional versions with flexible pin count as well as multiple stack heights will be available consecutively.

Key Features

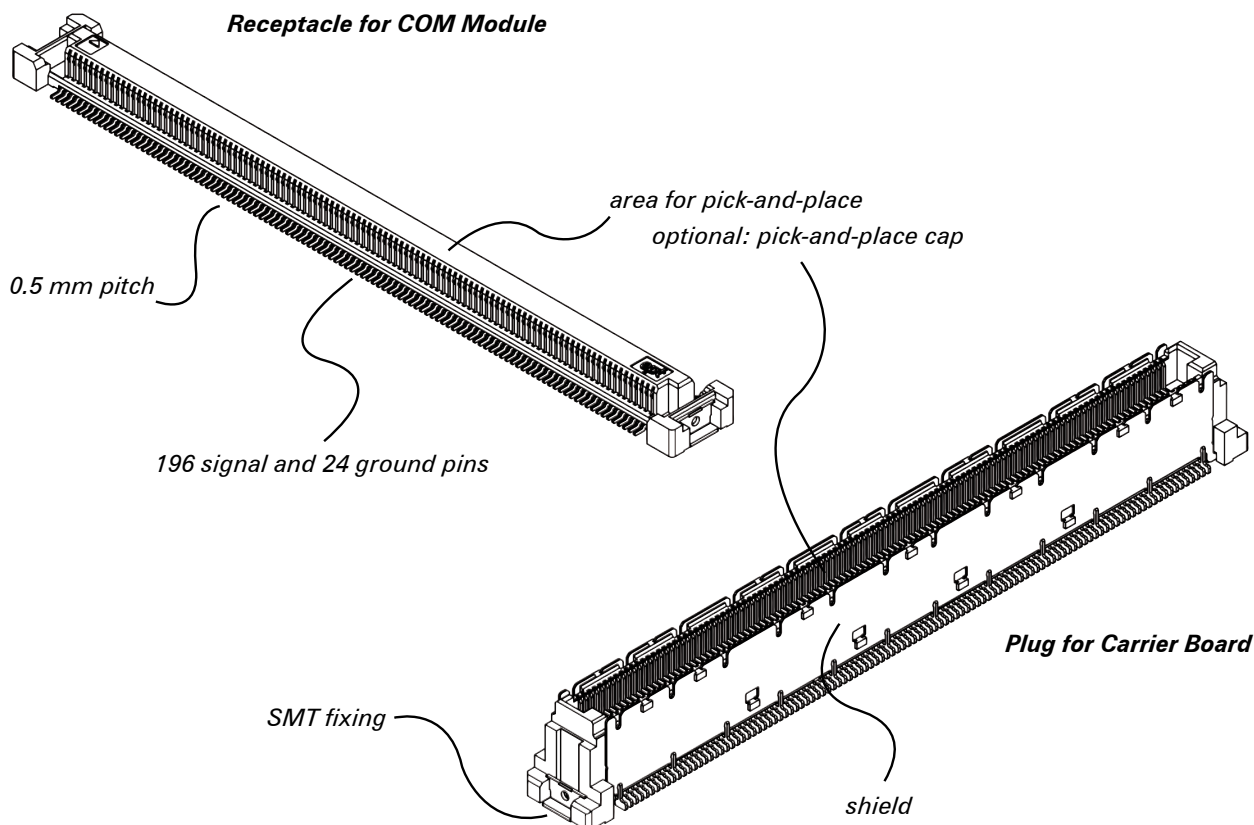
- Meets the requirements of PICMG COM Express® and SFF-SIG CoreExpress®
- Intermatability with available connectors in the market
- Robust connector design
- Plug connector with ground shield
- Receptacle connector with ground pins
- Custom configurations in pin count
- Integrated Pick & Place area
- Packed in Tape & Reel

Applications

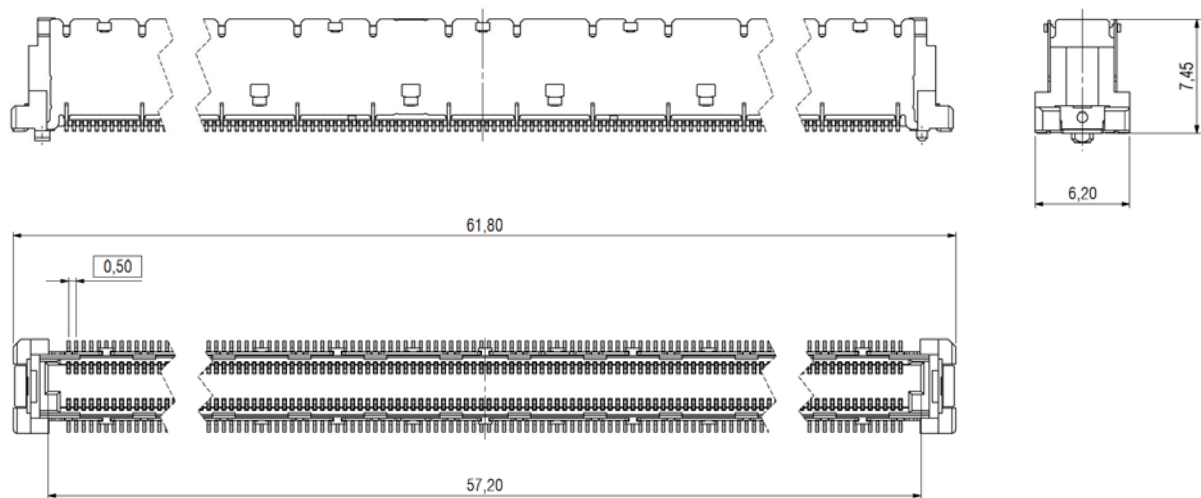
- COM Express®
- CoreExpress®
- Mezzanine Add-on Cards



COM  **Express®**

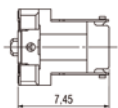


Technical Specifications	Colibri® for COM Express®	
	0.5 mm SMT Board-to-Board Connector System	
Specification	PICMG® COM.0	
No. of contacts	220 / 440	
Termination technology	SMT	
Operating temperature range	– 40 °C to + 85 °C	
Insulator material	LCP, UL 94 V-0	
Contact material	Copper alloy	
Plating	Au over Ni	
Grid	0.5 mm	
Mating force per pin	max. 0.9 N	
Separating force per pin	min. 0.1 N	
Durability	30 mating cycles	
Coplanarity	max. 0.1 mm	
Operational current	max. 0.5 A	
Operating voltage	50 VAC	
Contact resistance	max. 75 mΩ	
Insulation resistance	> 100 MΩ	
Test voltage	200 VAC	
Data transfer rate	5 Gbit/s	
Soldering temperature	260 °C per J-STD-020	
Packaging	Tape and reel	
Assembly	Pick and place	
Flammability	UL 94 V-0	
Environment	RoHS compliant	

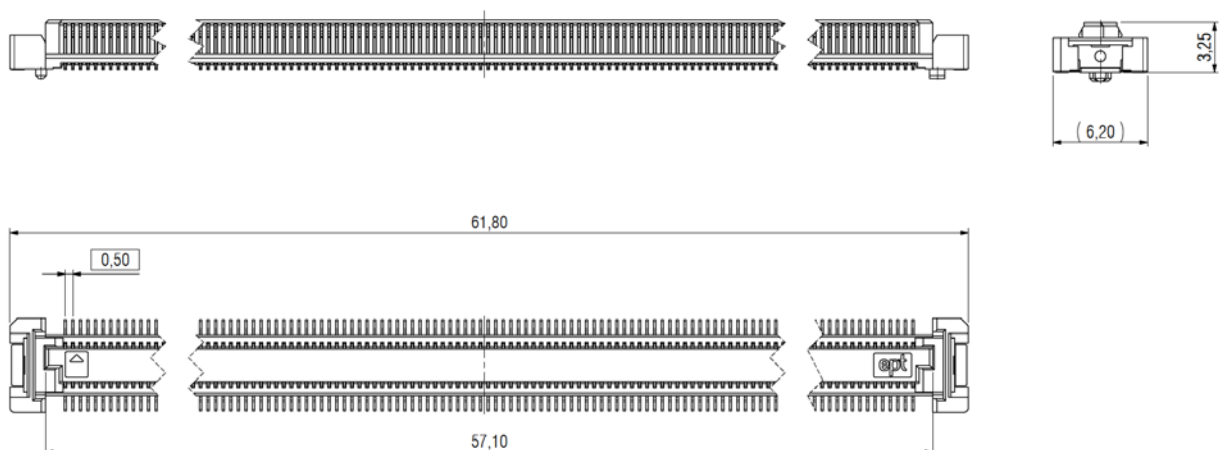


Dimensions in mm

Plug

No. of contacts	Colibri® Plug
	
	Part number
220	401-55101-51
440	401-55501-51

Options <ul style="list-style-type: none"> – Pick & place cap for 220 contacts version 	On request <ul style="list-style-type: none"> – Other contact numbers – Other stack heights – Different plating thickness 	Note <ul style="list-style-type: none"> – For detailed information see customer drawing
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Dimensions in mm

Receptacle

No. of contacts	Colibri® Receptacle
	Part number
220	402-51101-51
440	402-51501-51

Options

- Pick & place cap for 220 contacts version

On request

- Other contact numbers
- Different plating thickness

Note

- For detailed information see customer drawing