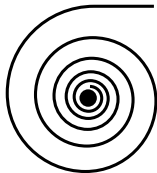
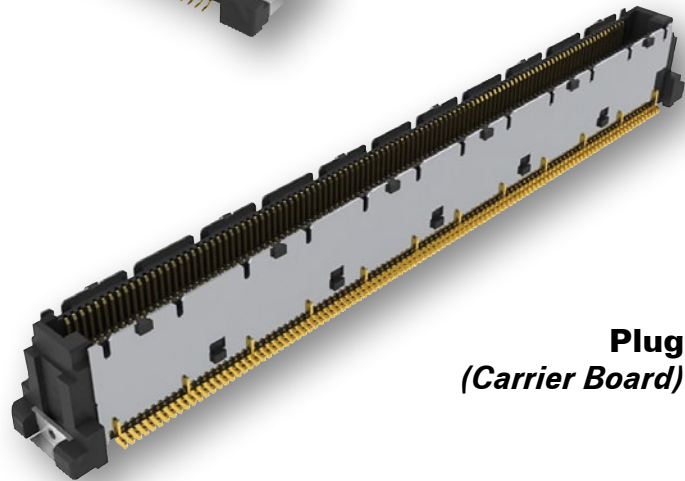


**Receptacle**  
*(COM Module)*



*Tape and Reel*  
for fully automated processing



**Plug**  
*(Carrier Board)*

## Colibri® for COM Express®

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

It is designed to meet the 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 and extensively tested.

The connector system is available with 8 mm and 5 mm stacking height plus 220 and 440 pins.

Additional versions with flexible pin count as well as multiple stacking heights are available on request.

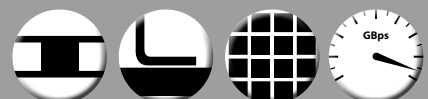
## Key Features

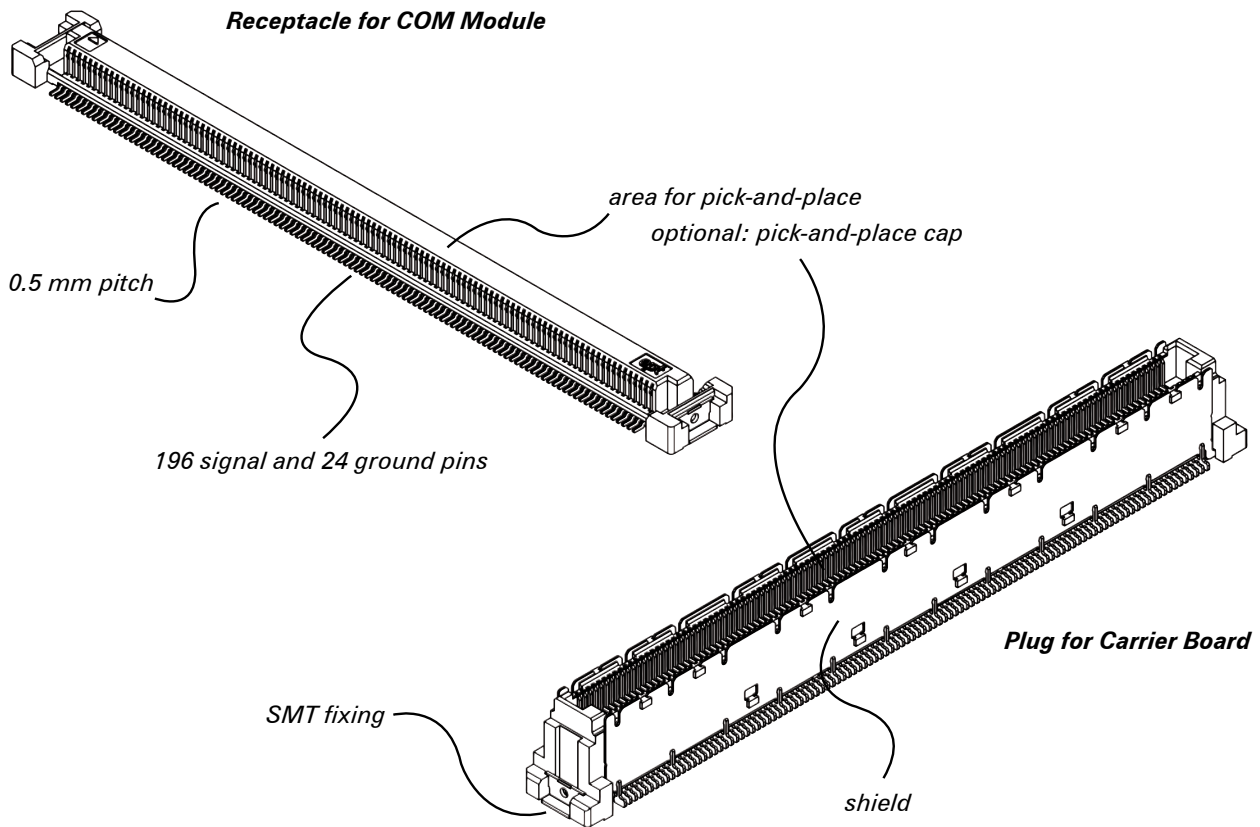
- Meets the requirements of PICMG COM Express® and SFF-SIG CoreExpress®
- Intermatability with available connectors in the market
- Tested up to 5 Gbit/s; applications up to 8 Gbit/s possible
- Robust connector design
- Custom configurations in pin count
- Integrated Pick & Place area
- Packed in Tape & Reel

## Applications

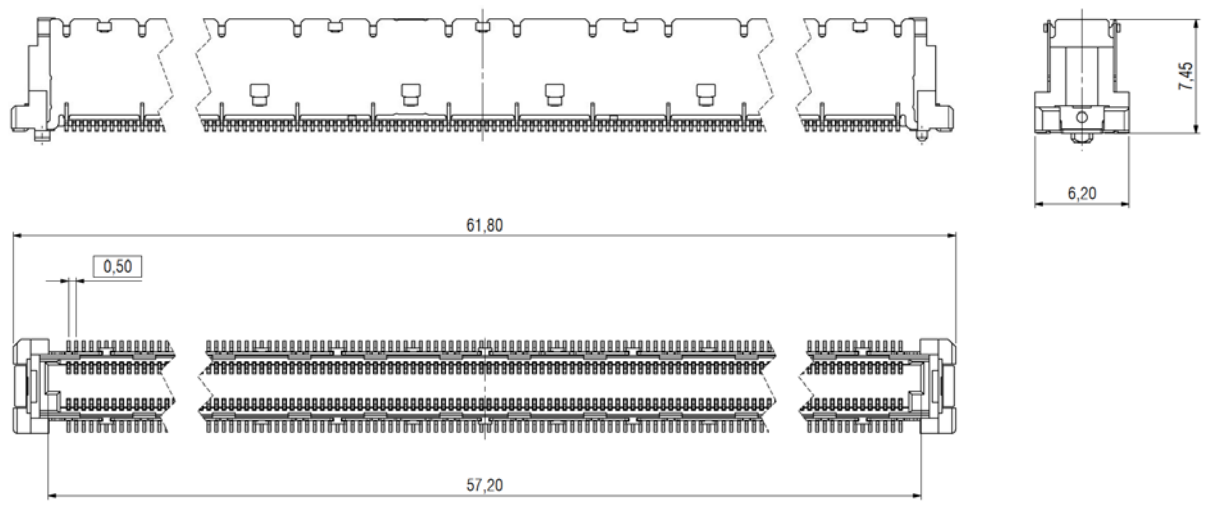
- COM Express®
- CoreExpress®
- Mezzanine Add-on Cards

**COM**  **Express®**



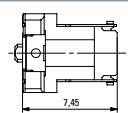
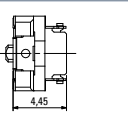


Technical Specifications		Colibri® for COM Express®	
		0.5 mm SMT Board-to-Board Connector System	
BASICS	Specification	PICMG® COM.0	
	No. of contacts	220 / 440	
	Termination technology	SMT	
	Operating temperature range	- 40 °C to + 85 °C	
MATERIAL	Insulator material	LCP, UL 94 V-0	
	Contact material	Copper alloy	
	Plating	Au over Ni	
MECHANICAL	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	
ELECTRICAL	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 (8 Gbit/s)	
PROCESSING	Soldering temperature	260 °C per J-STD-020	
	MSL	1	
	Packaging	Tape and reel	
	Assembly	Pick and place	
APPROVAL	Flammability	UL pending	
	Environment	RoHS compliant	

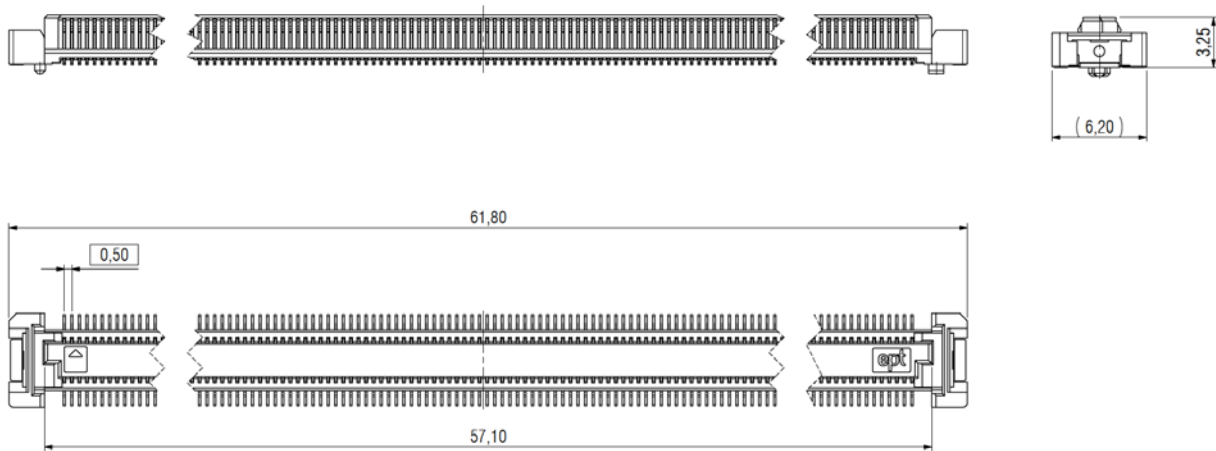


Drawing shows version with 8 mm stacking height, dimensions in mm

Plug (Base Board)

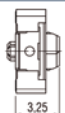
No. of contacts	Colibri® Plug	
		
	Part number 8 mm stacking height	Part number 5 mm stacking height
220	401-55101-51	401-51101-51
220 with pick & place cap	401-55151-51	401-51151-51
440 with pick & place cap	401-55501-51	401-51501-51

<b>Options</b> – Tray packaging (please add <b>VP1</b> to the part number!)	<b>On request</b> – Other contact numbers – Other stack heights – Different plating thickness	<b>Note</b> – For detailed information see customer drawing
---	--	---



Dimensions in mm

### Receptacle (COM Module)

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

<p><b>Options</b></p> <ul style="list-style-type: none"> <li>– Tray packaging (please add <b>VP1</b> to the part number!)</li> </ul>	<p><b>On request</b></p> <ul style="list-style-type: none"> <li>– Other contact numbers</li> <li>– Different plating thickness</li> </ul>	<p><b>Note</b></p> <ul style="list-style-type: none"> <li>– For detailed information see customer drawing</li> </ul>
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