

#### 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**

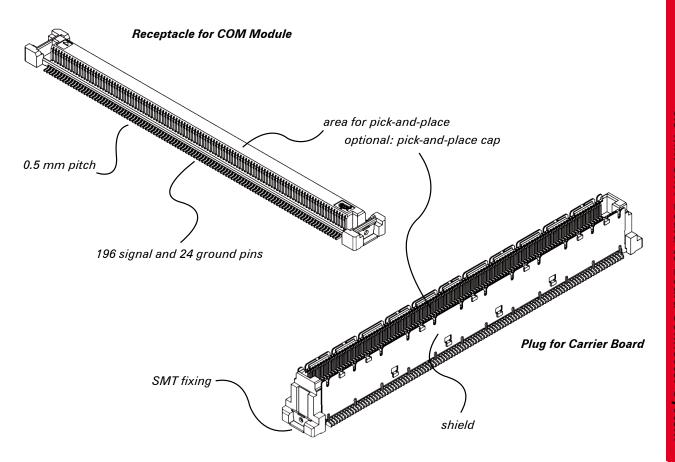
- COM Express®
- CoreExpress®
- Mezzanine Add-on Cards



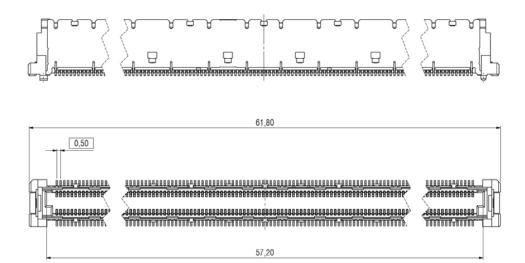
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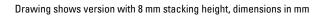


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Technical Specifications	0.5 mm SMT Board-to-Board Connector System	
BASICS Specification	PICMG® COM.0	
No. of contacts	220 / 440	
Termination technology	SMT	
Operating temperature range	$-40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$	
MATERIAL Insulator 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. $75~\text{m}\Omega$	
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	



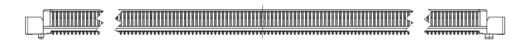


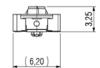
# Plug (Base Board)

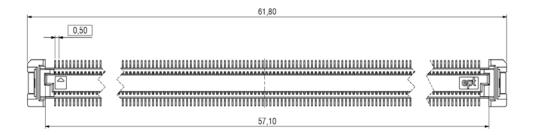
	Colibri® Plug		
	7,45	4.45	
No. of contacts	Part number 8 mm stacking height	Part number 5 mm stacking height	
220	401-55101-51	401-51101-51	
220 with pick & place cap	401-55151-51	401-51151-51	
440 with pick & place cap	401-55501-51	401-51501-51	

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

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Dimensions in mm

# Receptacle (COM Module)

	Colibri® Receptacle
No. of	3.25
contacts	Part number
220	402-51101-51
440	402-51501-51

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

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