



**THE DATASHEET OF  
10045588-101LF**



## Mechanical Guidance Modules

### HIGH FLEXIBILITY AND PERFORMANCE CONNECTOR

Guidance modules assure proper connector alignment prior to connector engagement and are suitable for backplane, coplanar or orthogonal midplane applications in Hard Metric environments. Modules fitting 20mm slot pitch complement AirMax® 4-Pair or 5-Pair modules or ZipLine 6-Pair signal modules. Modules fitting 17mm slot pitch complement AirMax 3-Pair signal modules or can be used with taller signal modules to provide more clearance for airflow.

- 20mm slot ideal for AirMax 4-Pair or 5-Pair modules or ZipLine 6-Pair signal modules
- 17mm slot ideal for AirMax 3-Pair signal modules
- Can be used with taller signal modules to provide more clearance for airflow.



#### TARGET MARKETS



#### FEATURES

- Rugged metal components fastened to boards with screws
- 7.2mm guide blades carry maximum weight in small space
- Free standing guidance components
- 10.8mm modules have guidance, coding, and ESD clips
- Hardware applications

#### BENEFITS

- Mechanically robust guidance
- Optimizes board edge real estate
- Maximizes design flexibility
- Enables board polarization and grounding
- Flexible design supports right angle and coplanar applications

## TECHNICAL INFORMATION

### MATERIAL

- Base metal: Zinc alloy
- Finish:
  - Body: Zinc yellow chromate
  - ESD contact: Nickel

### TARGET MARKETS/APPLICATIONS



Switches  
Access  
Wireless Base Station  
Switching  
Base Station  
Telecom  
Datacom  
Datacom/Networking Equipment  
Cluster/Navigation  
AC/DC pluggable power supplies



Rack Mount Server  
Blade Server  
Storage Server  
Datacenter  
Storage System  
Router and Server  
Datacenter switching applications  
Control Boards



Lighting  
Control Drives  
Test Equipment  
Power Supplies  
Access Control  
Industrial Controls & Instruments  
Automation



Medical Instruments



Lighting  
Car Navigation Systems

Renewable Energy  
Aerospace  
Aviation

### MECHANICAL PERFORMANCE

- Misalignment correction:
  - Pin-style modules: +/- 3.5mm max. in direction perpendicular or parallel to daughter card
  - Blade-style modules: +/- 2.9mm max. in direction perpendicular or parallel to card
- Clearance after full guidance:
  - Pin-style modules: 0.35mm nominal (0.175mm surrounding the pin) between pin and receptacle
  - Blade-style modules: 0.25mm nominal (0.125mm per side in the direction perpendicular to the daughter card and 0.30mm nominal (0.15mm per side) in the direction parallel to the daughtercard

### APPROVALS AND CERTIFICATIONS

- Lead-free and RoHS compliant

### PACKAGING

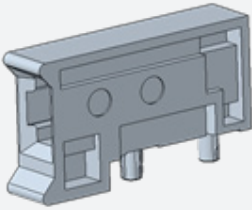
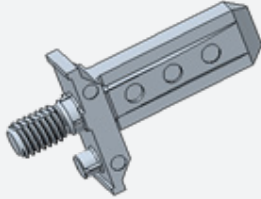
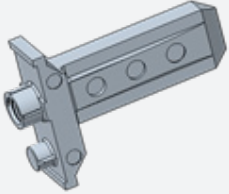
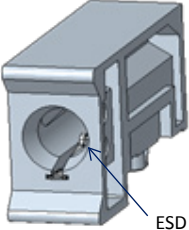
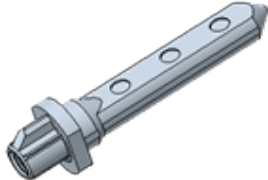
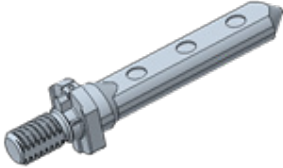
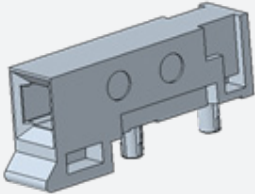
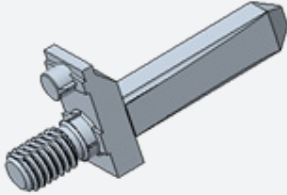
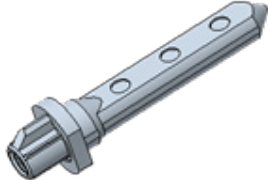
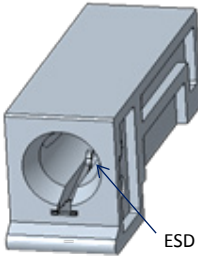
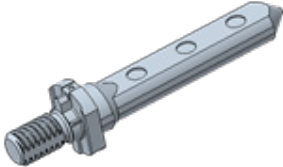
- Trays (guide pins)
- Tubes (guide modules)

### SPECIFICATIONS

- Application specification: GS-20-045

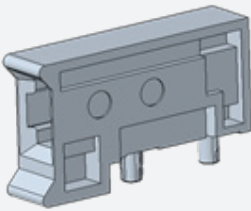
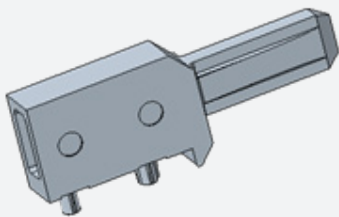
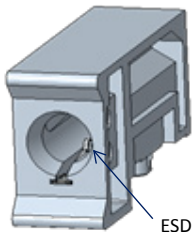
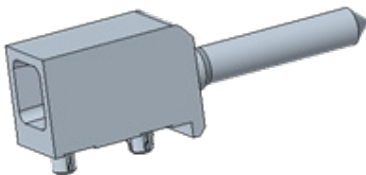
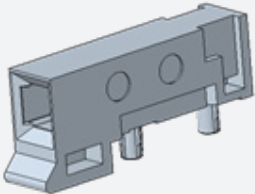
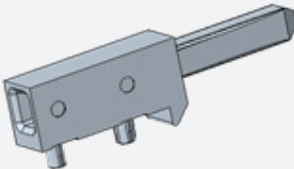
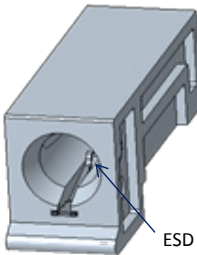
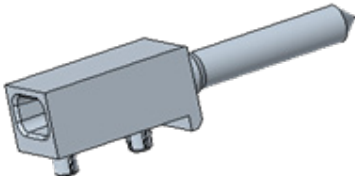
# ROBUST MECHANICAL DIE CAST GUIDE MODULES

APPLICATIONS: BACKPLANE, COPLANAR, AND ORTHOGONAL ARCHITECTURES

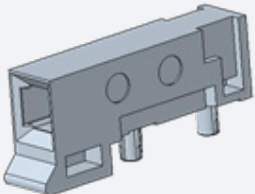
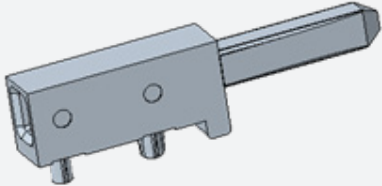
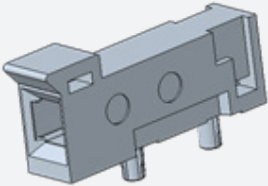
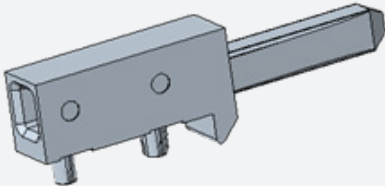
Application	Receptacle	Header
AirMax/ExaMAX 4-, 5-, 6- & 8-Pair	 <p>Receptacle Type=7.2mm 10037909</p>	 <p>Type=7.2mm Length=25.3mm External Thread 10037908</p>
		 <p>Type=7.2mm Length=25.3mm Internal Thread 10066832</p>
	 <p>Receptacle Type=10.8mm ESD(optional) 10037912</p>	 <p>Type=10.8mm Internal Thread 10037911</p>
		 <p>Type=10.8mm External Thread 10037910</p>
AirMax/ExaMAX 2- & 3-Pair	 <p>Receptacle Type=7.2mm 10045367</p>	 <p>Type=7.2mm Length=25.3mm 10045368</p>
		 <p>Type=10.8mm Internal Thread 10037911</p>
	 <p>Receptacle Type=10.8mm ESD (optional) 10045597</p>	 <p>Type=10.8mm External Thread 10037910</p>

## ROBUST MECHANICAL DIE CAST GUIDE MODULES

### ROBUST MECHANICAL GUIDANCE MODULES FOR COPLANAR

Application	Receptacle	Header
AirMax 4-& 5-Pair	 <p>Receptacle Type=7.2mm 10037909</p>	 <p>Coplanar Type=7.2mm 10044314</p>
	 <p>Receptacle Type=10.8mm ESD(optional) 10037912</p> <p>ESD</p>	 <p>Coplanar Type=10.8mm 10044366</p>
AirMax 2- & 3-Pair	 <p>Receptacle Type=7.2mm 10045367</p>	 <p>Coplanar Type=7.2mm 10045588</p>
	 <p>Receptacle Type=10.8mm ESD (optional) 10045597</p> <p>ESD</p>	 <p>Coplanar Type=10.8mm 10045509</p>

### ROBUST MECHANICAL GUIDANCE MODULES FOR INVERSE COPLANAR

Application	Receptacle	Header
AirMax 4-Pair	 <p>Receptacle Type=7.2mm 10045367</p>	 <p>Inverse Coplanar Type=7.2mm 10101902</p>
ExaMAX 3-Pair	 <p>Receptacle Type=7.2mm 10150954</p>	 <p>Inverse Coplanar Type=7.2mm 10150953</p>

## ▶ Mechanical Guidance Modules

### BLADE-STYLE BACKPLANE/MIDPLANE GUIDE MODULES – WITH NO KEYING OR ESD OPTIONS

Application	Minimum Card Spacing (mm)	Guide Module Width (mm)	Guide Pin Length (mm)	Guide Pin Thread Style	Product Variation	
					Backplane/Midplane	Daughtercard
					Guide Pin	Right Angle Guide Module
Backplane Guide Blade	20	7.2	18.3	External threads	10037915-101LF	10037909-101LF
	20	7.2	25.3	External threads	10037908-101LF	10037909-101LF
	20	7.2	25.3	Internal threads	10066832-101LF	10037909-101LF
	17	7.2	25.3	External threads	10045368-101LF	10045367-101LF
Coplanar Blade Receptacle	Minimum Card Slot Spacing (mm)	Guide Module Width (mm)	Guide Pin Length (mm)	Guide Pin Thread Style	Right Angle Pin	Right Angle Receptacle
	20	7.2	25.3		10044314-101LF	10037909-101LF
	17	7.2	25.3		10045588-101LF	10045367-101LF

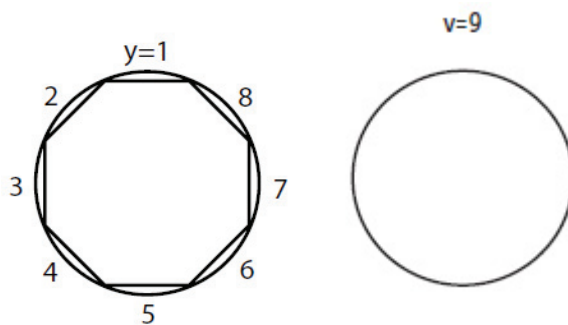


### PIN-STYLE BACKPLANE/MIDPLANE GUIDE MODULES – WITH KEYING AND ESD OPTIONS

Application	Minimum Card Spacing (mm)	Guide Module Width (mm)	Guide Pin Length (mm)	Guide Pin Thread Style	Product Variation	
					Backplane/Midplane	Daughtercard
					Guide Pin	Right Angle Guide Module
Backplane Guide Blade	20	10.8	32.0	External threads	10037910-1xxLF	10037912-1xyLF
	20	10.8	32.0	Internal threads	10037911-1xxLF	10037912-1xyLF
	17	10.8	32.0	External threads	10037910-1xxLF	10045597-1xyLF
	17	10.8	32.0	Internal threads	10037911-1xxLF	10045597-1xyLF
Coplanar Blade Receptacle	Minimum Card Slot Spacing (mm)	Guide Module Width (mm)	Guide Pin Length (mm)	Guide Pin Thread Style	Right Angle Pin	Right Angle Receptacle
	20	10.8	29.9		10044366-10yLF	10037912-1xyLF
	17	10.8	29.9		10045509-10yLF	10045597-1xyLF



y	Key Angle
1	0°
2	45°
3	90°
4	135°
5	180°
6	225°
7	270°
8	315°
9	no key



\* For backplane guide pin modules, “xx” is dictated by the backplane thickness. Replace with code from product drawing. Reference the product drawing for additional information.



\* For right-angle guide modules, “x” = 0 with ESD clip; “x” = 1 without ESD clip. “y” designates the keying angle option.

Reference the product drawing for additional information.

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