

# MXMag RJ45 Connector Family

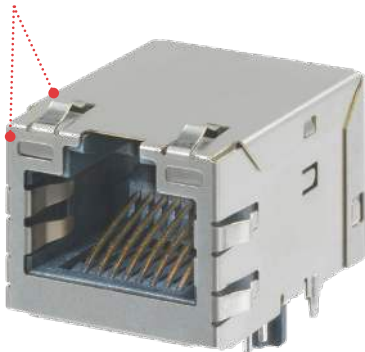


The MXMag RJ45 Connector Family consists of robust, highly-reliable magnetic jacks with optional reflow-solder capabilities and optional Power over Ethernet (PoE) function to deliver additional cost advantages value

## Features and Advantages

### LED and EMI shield tab options

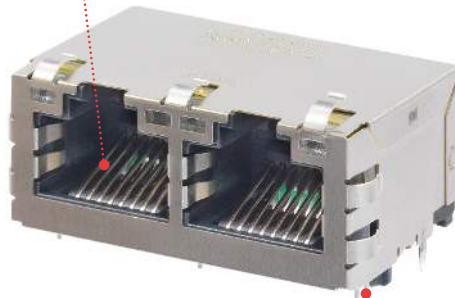
Meets demands for custom magnetics to match competitor and PHY vendor requirements. Meets the majority of right-angle through-hole magnetic jack connector requirements on the market



MXMag Inverted (Tab-Up)  
Connector 21.4mm (0.85") Depth

### RJ45 interface with robust terminal design

Designed to mate with plugs that don't strictly meet the industry-standard IEC spec. Able to withstand higher-vibration environments



MXMag Dual-Port Inverted (Tab-Up)  
Connector 21.4mm (0.85") Depth

### PoE functionality

Delivers added functionality and cost advantages through eliminating additional cabling.



MXMag Tab-Down Connector  
21.4mm (0.85") Depth

### Available in temperature ranges 0 to +70°C and -40 to +85°C

Suitable for a broad range of applications and environments

### Reflow-solder compatible; pin-in-paste and automated pick-and-place options available

Provides high-speed assembly solution without compromising robust through-hole PCB connection

### Multiple packaging options available

Tape and reel packaging for pick-and-place applications and tray packaging for standard assembly

## Applications

### Telecommunications/Networking

- Hubs
- Servers
- Printers

### Industrial

- PoE Cameras for machine vision
- PLC Controllers
- Network Interfaces
- Motion Control
- Sensor Networks

### Commercial

- Set-Top Boxes
- Internet of Things Applications

### Infrastructure

- Wireless Access Points



Set-Top Box



Point of Sale (POS) Terminal



Access Points



PLC



Camera and Vision

# MXMag RJ45 Connector Family



## Specifications

### REFERENCE INFORMATION

Packaging: Tray  
 UL File No.: E177474  
 Mates with: IEC 60603 / TIA-1096-A  
 Designed In: Millimeters  
 RoHS: Yes  
 Halogen Free: Yes  
 Glow Wire Compliant: No

### ELECTRICAL

Voltage (max.): 125V  
 Current (max.): 1.0A  
 Contact Resistance: 10mΩ  
 Dielectric Withstanding Voltage: 2.25kV DC

### MECHANICAL

Contact Insertion Force: n/a  
 Contact Retention to Housing: n/a  
 Insertion Force to PCB: n/a  
 Durability  
 Mating cycles (min.): 750 to 2500  
 Vibration Test:  
 Duration of discontinuity: 0.1 μsecond

### PHYSICAL

Housing: LCP Black  
 Contact: Copper Alloy  
 Plating:  
 Contact Area — Palladium Nickel with Gold Flash  
 Solder Tail Area — Tin  
 Underplating — Nickel  
 PCB Thickness: Varied  
 Operating Temperature:  
 Commercial: 0 to 70°C  
 Industrial: -40 to 85°C  
 Extended: -55°C to 105°C  
 Environmental Exposure:  
 (EIA-364-65 Class IIA) 10 years

## Ordering Information

### 21.4mm (0.85") Inverted (Tab-Up)

Order No.	LEDs	Ethernet Speed	Reflow or Pick and Place Capable?	Operating Temp	Packaging
93745-3608	GRN/YLW-GRN/YLW	Gigabit	Yes	0°C to +70°C	Tray
93627-3601	GRN-GRN				Tray
93627-3608	GRN/YLW-GRN/YLW				Tray
93462-8320	No	Fast Ethernet	No	-40°C to +85°C	Tray
93637-8617	GRN-ORG/YLW	Gigabit			Tray
93627-8020	No	Gigabit			Tray
93635-8314	YLW/GRN-YLW/GRN	Fast Ethernet	No	-40°C to +85°C	Tray
93627-3606	GRN/YLW-GRN/YLW	Gigabit			Tray
93769-8628	GRN/YLW-GRN/YLW	Gigabit			Yes
93462-8406	GRN-YLW	Fast Ethernet	No	-40°C to +85°C	Tray
93627-3701	GRN-GRN	Gigabit		-0°C to +70°C	Tray
93769-8628	GRN/YLW-GRN/YLW	Gigabit		-40°C to +85°C	Tray

### 21.4mm (0.85") Standard (Tab-Down)

Order No.	LEDs	Ethernet Speed	Reflow or Pick and Place Capable?	Operating Temp	Packaging
93626-3006	GRN-YLW	Gigabit	No	0°C to 70°C	Tray
93626-3508	GRN/YLW-GRN/YLW			0°C to 70°C	Tray
93626-8020	No			-40 to +85°C	Tray
93626-8520	No	Fast Ethernet	No	-40 to +85°C	Tray
93634-3206	GRN-YLW			0°C to 70°C	Tray
93634-8020	No			-40 to +85°C	Tray
93753-5320	No	Fast Ethernet	Yes	-40 to +85°C	Tape and Reel
93634-3205	GRN-GRN/YLW		No	0°C to 70°C	Tray
93771-8020	No			0°C to 70°C	Tray
93461-5508	GRN/YLW-GRN/YLW	Fast Ethernet		-40°C to +85°C	Tray
93626-8508	GRN/YLW-GRN/YLW	Gigabit	No	-40°C to +85°C	Tray

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## Ordering Information

### 25.4mm (1.00") Inverted (Tab-Up)

Order No.	LEDs	Ethernet Speed	Reflow or Pick and Place Capable?	Operating Temp	Packaging
<a href="#">93628-3721</a>	GRN-GRN	Gigabit	No	0 to +70°C	Tray
<a href="#">93628-3725</a>	GRN-GRN/YLW		No	0 to +70°C	Tray
<a href="#">93755-5226</a>	GRN-YLW	Fast Ethernet	Yes	-40 to +85°C	Tape and Reel
<a href="#">93767-5126</a>	GRN-YLW		Yes (No Shield Springs)	-40 to +85°C	Tape and Reel
<a href="#">93767-8126</a>	GRN-YLW		Yes	-40 to +85°C	Tape and Reel
<a href="#">93463-5206</a>	GRN-YLW		Yes	-40 to +85°C	Tray
<a href="#">93463-3214</a>	YLW-GRN		Yes	0 to +70°C	Tray
<a href="#">93463-5205</a>	GRN-YLW		No	-40 to +85°C	Tray
<a href="#">93755-5225</a>	GRN-GRN/YLW		No	-40 to +85°C	Tray

### 21.4mm (0.85") Inverted (Tab-Up) Power Over Ethernet (15W)

Part No.	Left LED	Right LED	EtherNet Speed	Operating Temp	Packaging
<a href="#">93809-3046</a>	250ohm Green	250ohm Yellow	Fast Ethernet	0 to 70°C	Tray
<a href="#">93809-8041</a>	250ohm Green	250ohm Green	Fast Ethernet	-40 to 85°C	Tray
<a href="#">93809-8046</a>	250ohm Green	250ohm Yellow	Fast Ethernet	-40 to 85°C	Tray
<a href="#">93809-8020</a>	None	None	Fast Ethernet	-40 to 85°C	Tray
<a href="#">93809-3020</a>	None	None	Fast Ethernet	0 to 70°C	Tray

### 21.4mm (0.85") Inverted (Tab-Up) Dual Port

Series No.	Description	LEDs	Physical Pin Length	Operating Temp	Packaging
<a href="#">93824-3006</a>	Fast Ethernet 4 Core Dual-Port RJ45 Connector	Green-Yellow	2.70 mm	0°C to +70°C	Tray
<a href="#">93824-3020</a>		None		0°C to +70°C	Tray
<a href="#">93825-8020</a>	Fast Ethernet 6 Core Dual-Port RJ45 Connector	None		-40°C to +85°C	Tray
<a href="#">93826-3001</a>	Gigabit 8 Core Dual-Port RJ45 Connector	Green-Green		0°C to +70°C	Tray
<a href="#">93826-3006</a>		Green-Yellow		0°C to +70°C	Tray
<a href="#">93826-3020</a>		None		0°C to +70°C	Tray
<a href="#">93828-3026</a>	Fast Ethernet 4 Core Dual-Port RJ45 Connector	Green-Yellow	2.20mm	0°C to +70°C	Tray
<a href="#">93828-8020</a>		None		-40°C to +85°C	Tray / Reel
<a href="#">93836-3026</a>	Green-Yellow	Fast Ethernet	No	-0°C to +70°C	Tray

### 33.02mm (1.30") Inverted (Tab-Up) Non-PoE

Part No.	LED's	Ethernet Speed	PoE	Operating Temp	Packaging		
85793-1001	GRN / GRN	Gigabit	Non-PoE	0°C to +70°C	Tray		
85793-1003	GRN-ORG / GRN						
85793-1006	GRN / YW						
85793-1007	GRN-YW / GRN						
85793-1010	GRN-YW / YW-GRN						
85793-1012	YW-GRN / GRN						
85793-1013	YW-GRN / YW/GRN						
85793-1014	YW / GRN						
85793-1020	Non-LED						
85793-3006	GRN / YW						
85793-3007	GRN / GRN						
							-40°C to +85°C

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## Ordering Information

### 33.02mm (1.30") Inverted (Tab-Up) Power Over Ethernet (30W)

Order No.	LEDs	Ethernet Speed	PoE	Operating Temp	Packaging
85789-1001	GRN / GRN	Gigabit	Class 4 / 30W PoE	0°C to +70°C	Tray
85789-1003	GRN-ORG / GRN				
85789-1006	GRN / YW				
85789-1007	GRN-YW / GRN				
85789-1012	YW-GRN / GRN				
85789-1013	YW-GRN / YW/GRN				
85789-1014	YW / GRN				
85789-1015	YW-GRN / GRN				
85789-1017	GRN-ORG / YW				
85789-1020	Non-LED				
85789-3006	GRN / YW			-40°C to +85°C	
85789-3016	GRN-YW / GRN				
85789-4008	GRN-YW / GRN-YW				
85789-4020	Non-LED				

### 39.00mm (1.53") Inverted (Tab-Up) Powered Device (PD 30W) Power Over Ethernet (Integrated PoE Controller Chip)

Order No.	LEDs	Ethernet Speed	PoE	Operating Temp	Packaging
85791-0020	Non-LED	Gigabit	Class 0 / 13W PD	0°C to +70°C	Tray
85791-1020			Class 1 / 3.84W PD	0°C to +70°C	
85791-2020			Class 2 / 6.49W PD	0°C to +70°C	
85791-3020			Class 3 / 13W PD	0°C to +70°C	
85791-4020			Class 4 / 25.5W PD	0°C to +55°C	
85791-4420			Class 4 / 25.5W PD No Shield Springs	0°C to +55°C	

[www.molex.com/link/mxmag.html](http://www.molex.com/link/mxmag.html)

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