

MXMag RJ45 Connector Family

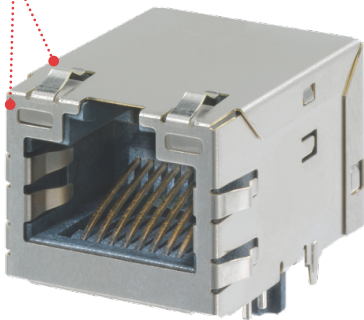
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The MXMag RJ45 Connector Family consists of robust, highly-reliable magnetic jacks with optional reflow-solder capabilities and optional Power over Ethernet (PoE) function to deliver additional cost advantages value

Features and Advantages

LED and EMI shield tab options

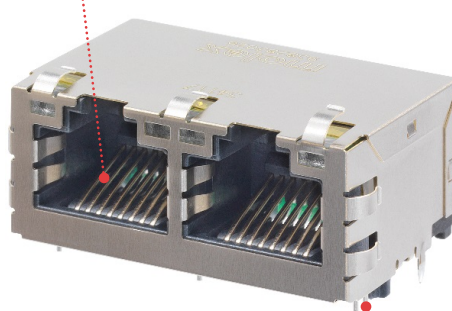
Meets demands for custom magnetics to match competitor and PHY vendor requirements. Meets the majority of right-angle through-hole magnetic jack connector requirements on the market



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

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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		No		Tray
93627-3608	GRN/YLW-GRN/YLW				Tray
93462-8320	No	Fast Ethernet		Tray	
93637-8617	GRN-ORG/YLW	Gigabit		Tray	
93627-8020	No			Tray	
93635-8314	YLW/GRN-YLW/GRN	Fast Ethernet		Tray	
93627-3606	GRN/YLW-GRN/YLW	Gigabit		0°C to +70°C	Tray
93769-8628	GRN/YLW-GRN/YLW	Gigabit		Yes	-40°C to +85°C
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			-40 to +85°C	Tray
93634-3206	GRN-YLW	Fast Ethernet		0°C to 70°C	Tray
93634-8020	No			-40 to +85°C	Tray
93753-5320	No		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		-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
93628-3721	GRN-GRN	Gigabit	No	0 to +70°C	Tray
93628-3725	GRN-GRN/YLW		No	0 to +70°C	Tray
93755-5226	GRN-YLW	Fast Ethernet	Yes	-40 to +85°C	Tape and Reel
93767-5126	GRN-YLW		Yes (No Shield Springs)	-40 to +85°C	Tape and Reel
93767-8126	GRN-YLW		Yes	-40 to +85°C	Tape and Reel
93463-5206	GRN-YLW		Yes	-40 to +85°C	Tray
93463-3214	YLW-GRN		Yes	0 to +70°C	Tray
93463-5205	GRN-YLW		No	-40 to +85°C	Tray
93755-5225	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
93809-3046	250ohm Green	250ohm Yellow	Fast Ethernet	0 to 70°C	Tray
93809-8041	250ohm Green	250ohm Green	Fast Ethernet	-40 to 85°C	Tray
93809-8046	250ohm Green	250ohm Yellow	Fast Ethernet	-40 to 85°C	Tray
93809-8020	None	None	Fast Ethernet	-40 to 85°C	Tray
93809-3020	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
93824-3006	Fast Ethernet 4 Core Dual-Port RJ45 Connector	Green-Yellow	2.70 mm	0°C to +70°C	Tray
93824-3020		None		0°C to +70°C	Tray
93825-8020	Fast Ethernet 6 Core Dual-Port RJ45 Connector	None		-40°C to +85°C	Tray
93826-3001	Gigabit 8 Core Dual-Port RJ45 Connector	Green-Green		0°C to +70°C	Tray
93826-3006		Green-Yellow		0°C to +70°C	Tray
93826-3020		None		0°C to +70°C	Tray
93828-3026	Fast Ethernet 4 Core Dual-Port RJ45 Connector	Green-Yellow	2.20mm	0°C to +70°C	Tray
93828-8020		None		-40°C to +85°C	Tray / Reel
93836-3026	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			-40°C to +85°C	
85793-3007	GRN / GRN				

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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

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