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Magnetic Jacks ›

Magnetic Jacks from Molex are advanced modular jacks with integrated magnetics that filter common mode noise to provide signal integrity, protect PHY chips, provide DC isolation and offer low-mode conversion. With increasing demand for higher data speeds and more reliable connections, the high-speed data transmission of Magnetic Jacks enables high-power delivery over Ethernet cables. These Magnetic Jacks ensure reliable connectivity and protect against electromagnetic interference (EMI).

ADVANTAGES AND FEATURES

Helps meet the needs of most right-angle through-hole magnetic jack connector requirements on the market

LED and EMI shield tab options in the jacks provide a high level of customizability, allowing them to meet the specific requirements of competing vendors and PHY specifications.

Supports higher-density system layouts without PCB redesign

The low-profile design enables use in space-contained applications where standard RJ45 connectors exceed height limits. This allows for higher port density without redesigning the PCB, providing a clear advantage in compact networking and server applications.

Delivers added functionality and assembly benefits

Optional PoE enhances functionality and reduces costs by eliminating extra power cabling, while reflow, pin-in-paste, and automated pick-and-place compatibility ensure high-speed assembly and robust through-hole connections.

Current (max.)	1.5A
Durability (min.)	750/2,500 cycles
Voltage (max.)	125V









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MARKETS AND APPLICATIONS

Industrial Automation
Motion control devices
Network interfaces
Programmable logic controllers
PoE cameras
Sensor networks

Medtech
Diagnostic equipment
Patient-monitoring systems

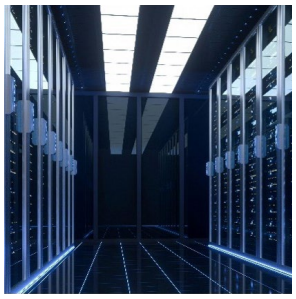
Networking
Hubs
Routers
Switches

Server & Storage
Hyperscale data centers
Servers

Wireless infrastructure
Wireless access point devices
IoT applications



Hubs



Servers



Wireless Access Point Devices



Motion Control Devices



Patient-Monitoring Systems

SPECIFICATIONS

Reference Information
Packaging: Tray, tube, and tape and reel
UL File No.: E17747
Mates with: IEC-60603-7-1
RoHS: Yes
Halogen Free: Low halogen

Electrical
Voltage (max.): 125V
Current (max.): 1.5A
Contact Resistance: 20 milliohms
Dielectric Withstanding Voltage: 2,250V DC
Insulation Resistance (min.): 500 Megohms

Mechanical
Insertion Force (max.): 30N
Durability (min.): 750/2,500 cycles

Physical
Housing: Nylon/PBT/LCP
Contact: Copper alloy
Plating:
Contact area — gold/gold flash
Solder tail area — tin
Underplating — nickel/palladium nickel
PCB Thickness: 1.60mm
Operating Temperatures: -40 to +85°C
0 to +70°C

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ORDERING INFORMATION

Single Port NonPoE

21.6mm (0.85") Standard (Tab Down)

Part No.	Ethernet Speed	LEDs	EMI tabs	"Physical Pin Length (mm)"	Operating Termperatures	Packaging
934615508	Fast ethernet	Green/yellow-green/yellow	No	3.3	-40 to +85°C	Tray
936343205		Green-green/yellow	Yes		0 to +70°C	
936343206		Green-yellow				
936348020		None			-40 to +85°C	Tape and reel
937535320*			No			
937655320*				1.8		
937718020*			Yes		0 to +70°C	
936263508	Gigabit	Green/yellow-green/yellow		3.3		Tray
936268508					-40 to +85°C	
936263006		Green-yellow			0 to +70°C	
936268020		None			-40 to +85°C	
936268520						
937683408*		Green/yellow-green/yellow		1.8	0 to +70°C	Tape and reel
937688508*					-40 to +85°C	
937688628*						

21.6mm (0.85") Inverted (Tab-Up)

Part No.	Ethernet Speed	LEDs	EMI tabs	"Physical Pin Length (mm)"	Operating Termperatures	Packaging
934628320	Fast ethernet	None	Yes	3.3	-40 to +85°C	Tray
934628406		Green-yellow				
936358314		Yellow-green				
936273601	Gigabit	Green-green			0 to +70°C	
936273606		Green-yellow				
936273608		Green/yellow-green/yellow				
936273701		Green-green				
936278020		None			-40 to +85°C	
936378617		Green-orange/yellow				
937453608*		Green/yellow-green/yellow		1.8	0 to +70°C	
937698628*					-40 to +85°C	Tape and reel
940118628*					-55 to +105°C	Tray

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ORDERING INFORMATION

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

Part No.	Ethernet Speed	LEDs	EMI tabs	"Physical Pin Length (mm)"	Operating Temp.	Packaging
934633214	Fast ethernet	Yellow-green	Yes	3.3	0 to +70°C	Tray
934635205		Green-yellow	No		-40 to +85°C	
934635206						
937555225*		Green-green/yellow	Yes			Tape and reel
937555226*		Green-yellow				
937675126*			No	1.8		
937678126*			Yes			
936283721	Gigabit	Green-green		3.3	0 to +70°C	Tray
936283725		Green-green/yellow				

25.4mm (1.00") Inverted (Tab-Up) for IR reflow

Part No.	Ethernet Speed	LEDs	EMI tabs	"Physical Pin Length (mm)"	Operating Temp.	Packaging
480250002	Fast ethernet	Green-yellow	Yes	2.8	-40 to +70°C	Tray
480250091		Green-yellow		3.18		
480251090		Green-green				
480251091		Green-green	No			
480251190		Green-yellow	Yes			
480254000		Yellow-green				

33.02mm (1.30") Inverted (Tab-Up)

Part No.	Ethernet Speed	LEDs	EMI tabs	"Physical Pin Length (mm)"	Operating Temp.	Packaging
857931001	Gigabit	Green-green	Yes	3.15	0°C to +70°C	Tray
857931003		Green-orange/green				
857931006		Green-yellow				
857931007		Green-yellow/green				
857931012		Yellow-green/green				
857931013		Yellow/green-yellow/green				
857931014		Yellow-green				
857931020		None				

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ORDERING INFORMATION

Single Port PoE

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

Part No.	Ethernet Speed	LEDs	EMI tabs	"Physical Pin Length (mm)"	Operating Temp.	Packaging
938093020	Fast ethernet	None	Yes	3.3	0 to 70°C	Tray
938093046		Green-yellow				
938098020		None			-40 to 85°C	
938098041		Green-green				
938098046		Green-yellow				

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

Part No.	Ethernet Speed	LEDs	EMI tabs	"Physical Pin Length (mm)"	Operating Temp.	Packaging
857891001	Gigabit	Green/green	Yes	3.15	0 to +70°C	Tray
857891003		Green-orange/green				
857891006		Green-yellow				

Dual Port Non PoE

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

Part No.	Ethernet Speed	LEDs	EMI tabs	"Physical Pin Length (mm)"	Operating Temp.	Packaging
938243006	Fast ethernet	Green-yellow	Yes	2.7	0 to +70°C	Tray
938243020		None				
938283026		Green-yellow		2.2		
938288020*		None			-40 to +85°C	Tape and reel
938363026		Green-yellow			0 to +70°C	Tape and reel
938258020		None		2.7	-40 to +85°C	Tray
938263001	Gigabit	Green-green			0 to +70°C	
938263006		Green-yellow				
938263008		Green-yellow/green-yellow				
938263020		None				
938388020				2.2	-40 to +85°C	Tape and reel

Single Port NonPoE (SMD)

20.50mm (0.81") Inverted (Tab-up)

Part No.	Ethernet Speed	LEDs	EMI tabs	"Physical Pin Length (mm)"	Operating Temp.	Packaging
480749101	Fast ethernet	Green-yellow	Yes	-	-40 to +85°C	Tape and reel
480749103		Green/yellow-green	Top only			

*Pick-and-place capable

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