

RJ Magnetic (RJMG) Connectors

1G, 2.5G, 5G & 10G SOLUTION AVAILABLE TO SUPPORT DIFFERENT ETHERNET PHY

RJMG Connector offer a wide variety of fully RoHS compliant Magnetic Modular Jacks for RJ45. The right angle, through-hole type is offered in both single port and multi-port (1x2, 1x4 and 2x2 configurations) with options of tab up and tab down.

- Design to meet standard IEEE802.3
- 1G, 2.5G, 5G & 10G solution
- Power Over Ethernet (PoE/PoE plus) and surge protection options available
- Standard 0 to +70°C and extended -40°C to +85°C temperature
- Up to 1x4 and 2x8 configurations
- Tab up and tab down options for 1xN configuration
- Combo option with USB 2.0 or USB 3.0 connector interface

FEATURES

- Up to 1x4 and 2x8 configurations
- Shielded and EMI (Electromagnetic Interference) fingers option
- Single color options: yellow, orange, green LED
- Bi-color options: yellow/green, yellow/orange LED
- DIP or SMT termination type
- Right angle or vertical orientation
- Standard, sink, low profile, long and short body type
- Combo/ stack connector
- 1G, 2.5G, 5G & 10G solution

NEW


TARGET MARKETS



BENEFITS

- Wide range of circuit options to fulfill customer requirements
- Advanced protection against EMI and Electrostatic Discharge (ESD) protection
- Indication of different functions
- Different options to fulfill customer requirements
- Supports different Ethernet PHY requirements

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature Thermoplastic, UL 94V-0, Black
- Terminal
 - Phosphor Bronze, Plated with Gold over Nickel on contact Area
 - Phosphor Bronze, Plated with Tin on the Solder Tails
- Shell: Copper Alloy or Stainless Steel
- LED: Epoxy Lens, Tin Plated Steel Tails
- PCB: FR4 Fibreglass, Lead-Free

MECHANICAL PERFORMANCE

- Insertion & Withdrawal Force: 20N max. (Latch Disengaged)
- Durability: 750 mating cycles
- Vibration: Random Condition II (10g, 10–500Hz, 6 Hours), No Discontinuity > 1us
- Shock: Test Condition A (11 ms, 50g, 1/2 Sine), No Discontinuity > 1us

ELECTRICAL PERFORMANCE

- Design to meet standard IEEE802.3ab
- 10/100T, 1GBT (10/100/1000-BT), 10G, Power Over Ethernet(PoE/PoE plus) surge protection

PACKAGING

- Tray/Tube/Tape and Reel available upon request

SPECIFICATION

- Amphenol Product Specification: IEEE802.3, IEC 60603-7-5, USB 2.0 and USB 3.0

ENVIRONMENTAL

- Operating Temperature: 0 to +70°C
- Extended Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +85°C

TARGET MARKETS/APPLICATIONS



Router
Server
Set Top Box
Storage
Switching



Notebook



Smart Meter

Disclaimer

Please note that the above information is subject to change without notice.

PART NUMBERS

Description	Configuration	Orientation	Type	Part Numbers
RJMag 10/100 & 1000 base-T, with LED	1x1	Right Angle	DIP, Standard	RJMG264 Series
RJMag 10/100 & 1000 base-T, with LED	1x1	Right Angle	DIP, Low profile with short body, Tab up	RJMG2012 Series
RJMag 10/100 & 1000 base-T, with LED	1x1	Right Angle	DIP, Sink type low profile	RJMG2018 Series
RJMag 10/100 & 1000 base-T, with LED	1x1	Right Angle	DIP, Long body	RJMG2010 Series
RJMag 10/100 & 1000 base-T, with LED	2x1	Right Angle	DIP, Standard	RJMG2210 Series
RJMag 10/100 & 1000 base-T, with LED	1x2	Right Angle	DIP, Long body	RJMG20122 Series
RJMag 10/100 & 1000 base-T, with LED	2x2	Right Angle	DIP, Standard	RJMG2221 Series
RJMag 10/100 & 1000 base-T, with LED	1x4	Right Angle	DIP, Long body	RJMG2140 Series
RJMag 10/100 & 1000 base-T, with LED/PoE	2x4	Right Angle	DIP, Standard	RJMG2240 Series
RJMag 10/100 & 1000 base-T, with LED/PoE	2x6	Right Angle	DIP, Standard	RJMG226 Series
RJMag 10/100 & 1000 base-T, with LED	1G stack dual USB 2.0	-	-	RJMG2310 Series
RJMag 10/100 & 1000 base-T, with LED	1G stack single USB 2.0	-	-	RJMG2330 Series
RJMag 10/100 & 1000 base-T, with LED	1G stack dual USB 3.0	-	-	RJMG2411 Series
RJMag 10/100 & 1000 base-T, with LED	1G stack single USB 3.0	-	Press-fit	RJMG2510 Series
RJMag 10/100 & 1000 base-T, with LED	1x1	Vertical	-	RJMG1V Series

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