



MAGNETIC MODULAR JACKS

TE Connectivity's (TE) modular jacks with integrated magnetics offer a highly integrated connectivity solution from the cable to the physical layer for Ethernet network solutions. Integrating the magnetics into the jack allows for higher electro-magnetic interference (EMI) shielding, increasing reliability to the connection and signal. To meet increasing demand for information flow with greater bandwidth requirements, TE's broad range of magnetic modular jacks are now available with speeds up to 10 Gbps, offering exceptional performance for high-speed networking. The power over Ethernet (PoE) option allows for remote powering of peripherals directly over the Ethernet line.

APPLICATIONS

- High-speed networking
- Data centers
- Medical
- Industrial applications

KEY BENEFITS

- Up to 10Gbps speed.
- Integrated magnetics allow for improved EMI shielding, creating more reliable connections and reducing signal degradation.
- The PoE option allows for both power transmission and signal connection through the same cable.
- Useful for networking, data center, medical, and industrial applications utilizing Ethernet networking and connectivity solutions.
- Useful for heavy duty industrial applications due to an extended temperature range and robust construction.

KEY FEATURES

- Extended temperature range allows for more robust operations and addresses the needs of demanding applications.
- Supports PoE standard IEEE 802.3at.
- Compact design on PCB saves space.
- Right angle, vertical, and inverted options available.
- Multiple LED configurations
- 1GBT, 2.5GBT, 5GBT, and 10GBT capable designs for a wide variety of data transfer requirements.

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PART NUMBERS

Part Number	Detailed Description	PCB Mount Orientation	Modular Jack Latch Orientation	Data Rate	Performance Category	LED Color (Top Left)	LED Color (Top Right)	Power over Ethernet (PoE)
2489048-1	RJ45 Jack w/ Integrated Magnetics 1x1 10g G/Y-G LED 50μ" Gold - Brass Shield	Right Angle	Standard - Latch Down	10 Gb/s	Cat 6A	Green/Yellow	Green	No
2489079-1	RJ45 Jack w/ Integrated Magnetics 1x1 10g G-G/Y LED 50μ" Gold	Right Angle	Standard - Latch Down	10 Gb/s	Cat 6A	Green	Bicolor Green/Yellow	No
2489084-1	RJ45 Jack w/ Integrated Magnetics 1x1 10g G/Y-G LED 50μ" Gold	Right Angle	Standard - Latch Down	10 Gb/s	Cat 6A	Bicolor Green/Yellow	Green	No
2489103-1	RJ45 Jack w/ Integrated Magnetics 1x1 5g PoE 60w LED 50μ" Gold	Right Angle	Inverted - Latch Up	5 Gb/s	Cat 6	Green/Orange	Yellow	Yes
2489108-1	RJ45 Jack w/ Integrated Magnetics 1x1 5g PoE 100w LED 50μ" Gold	Right Angle	Inverted - Latch Up	5 Gb/s	Cat 6	Green/Orange	Yellow	Yes
2489107-1	RJ45 Jack w/ Integrated Magnetics 1x1 2.5g PoE 60w LED 50μ" Gold	Right Angle	Inverted - Latch Up	2.5 Gb/s	Cat 5e	Green/Orange	Yellow	Yes
2489085-4	RJ45 Jack w/ Integrated Magnetics 1x1 2.5g LED 6μ" Gold	Right Angle	Standard - Latch Down	2.5 Gb/s	Cat 5e	Green	Yellow	No
2489102-2	RJ45 Jack w/ Integrated Magnetics 1x1 2.5g LED 30μ" Gold	Right Angle	Inverted - Latch Up	2.5 Gb/s	Cat 5e	Green/Orange	Yellow	No
2489115-2	RJ45 Jack w/ Integrated Magnetics 1x1 1g G-Y LED 30μ" Gold	Right Angle	Inverted - Latch Up	1000 Mb/s	Cat 5	Green	Yellow	No
2489116-1	RJ45 Jack w/ Integrated Magnetics 1x1 1g G/O-Y LED 50μ" Gold	Right Angle	Inverted - Latch Up	1000 Mb/s	Cat 5	Green/Orange	Yellow	No
2489117-2	RJ45 Jack w/ Integrated Magnetics 1x1 1g G/Y-G LED 30μ" Gold	Right Angle	Inverted - Latch Up	1000 Mb/s	Cat 5	Green/Yellow	Green	No
2489120-1	RJ45 Jack w/ Integrated Magnetics 1x1 1g G-G LED 50μ" Gold	Right Angle	Inverted - Latch Up	1000 Mb/s	Cat 5	Green	Green	No
2488942-2	RJ45 Jack w/ Integrated Magnetics 1x1 1g G/Y-G LED 30μ" Gold	Right Angle	Inverted - Latch Up	1000 Mb/s	Cat 5	Green/Yellow	Green/Yellow	No
2488953-1	RJ45 Jack w/ Integrated Magnetics 1x1 100Base-T LED 50μ" Gold	Vertical	Inverted (Top) / Standard (Bottom)	100 Mb/s	Cat 3	Green	Yellow	No
2488960-3	RJ45 Jack w/ Integrated Magnetics 1x1 100Base-T LED 15μ" Gold	Right Angle	Inverted - Latch Up	100 Mb/s	Cat 3	Green	Yellow	No
2488965-3	RJ45 Jack w/ Integrated Magnetics 1x1 100Base-T w/o LED 15μ" Gold	Right Angle	Standard - Latch Down	100 Mb/s	Cat 3	-	-	No
2488983-2	RJ45 Jack w/ Integrated Magnetics 1x1 100Base-T LED 30μ" Gold	Vertical	Inverted (Top) / Standard (Bottom)	100 Mb/s	Cat 3	Green	Yellow	No
2489011-1	RJ45 Jack w/ Integrated Magnetics 1x1 PoE 100Base-T LED 50μ" Gold	Right Angle	Inverted - Latch Up	100 Mb/s	Cat 3	Green/Orange	Yellow	Yes

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