

### POE CONNECTOR SERIES

Xmultiple XRJH-1 XRJH-2 series RJ45 MAG connectors with integrated LAN magnetics were designed to save board space and provide a way to increase the accuracy of board assembly.

The XRJH-1 and XRJH-2 RJ45 MAG Jacks integrate magnetic components inside the shielded jack housing to save valuable board space and to reduce discrete component placements. The XRJH technology enhances a product's electromagnetic compatibility.

The XRJH RJ/ LED/Magnetic modular jacks are designed as shielded and unshielded jacks. The XRJH's are provided with thru-hole PC board mount. These high performance category 5 and 5e jacks conform to TIA/EIA-568A requirements.

LEDs integrated into the modular jack reduce space requirements for indicators. LEDs reduce time and much of the labor cost for electronic assembly. With built in LEDs the status of transmit/receive, collisions and line status can be identified by viewing the indicators directly in each port. The LEDs are offered in a variety of color combinations.

The XRJH modular jacks are provided with 1 and 4 ports as well as 2x1, 2x4, 2x6 and 2x8 Stackable connectors. With an industry-standard RJ45 footprint, the modular XRJH connectors offer a choice of magnetic components to meet 10/100 Base-T and 1 Gigabit specifications. By integrating customer-specific yoke coils and transformer configurations within the connector, the XRJH connectors permit designers to reduce board size or to dedicate more space to essential circuitry.



#### PRODUCT FACTS

- Effective Common Mode Attenuation over a wide frequency range.
- LEDs located at top of jack for effective visibility
- LEDs provided in a variety of color options
- Designed to be compatible with standard wave solder, I/R and vapor phase manufacturing processes.
- Offered in 1 port, 4 port and stackable 4, 6, and 8 port configurations
- Unshielded and shielded versions in popular size configurations
- Provides grounding through panel and PC Board, gold plating and solder tails
- Lower labor cost during assembly of PCB
- Meets or exceeds FCC Part 68 rules and regulations with standard PC board footprints. Meet 10/100 and 1 Gigabit specifications.
- Produced under a Quality Management Certified to ISO 9000

# LED MODULAR JACK SPECIFICATIONS

## Electrical

- **Current Rating** - 1.5 amp max. at 25°C
- **Voltage Rating** - 150 VAC max.
- **Dielectric Withstanding Voltage** – 1000 VAC
- **Insulation Resistance** – 500 megohms min.
- **Shielding Effectiveness** - 20dB min., 10 to 200 MHz
- **Attenuation** - @ 100 MHz - .04 dB max.
- **Return Loss** - @ 100 MHz - 19 dB min.
- **Common Mode Rejection** - 16 dB at 155 MHz (For Common Mode Choke, Electrical Diagram 023)

## Mechanical

- **Durability** -1000 mating cycles (per IEC 603)
- **Mating/Unmating Forces** - 4.5 lbs. Max
- **Operating Temperature** - -40°C to 70°C

## Material & Finish

- **Housing** - High temperature Nylon, Black, UL 94V-0 rated
- **Contact** - 0.33 [.013] Phosphor bronze, plated 0.00127 [.000050] gold in localized area and 0.00381 [.000150] tin-Lead on solder tails, over 0.00127 [.000050] nickel underplate
- **Shield** - 0.25 [.010] copper alloy, tin-lead plated

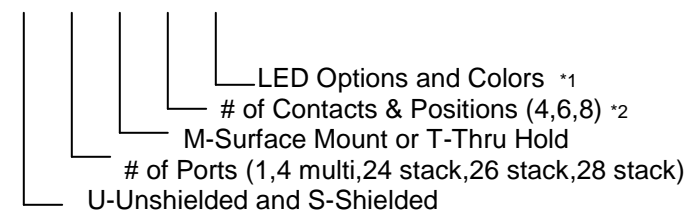


## ORDERING INFORMATION

**Part Number:** XRJH-X-X-X-X-X  
**Family:** LED Modular Jacks with Integrated Magnetics  
**Version:** Position, Through Hole or SMT  
**Number of Contacts & Positions:** ( 6 or 8)  
**Shielding:** Shielded or Unshielded  
**Number of Ports:** 1, 4, 6, 8  
**LED1:** Various Colors or Bi-LED Optional  
**LED2:** Various Colors or Bi-LED Optional

## PART DASH NUMBER OPTIONS

X -X -X -X -X



NOTE: \*1 LED Color Chart Available

## XMULTIPLE USA

543 Country Club Drive #B128 • Simi Valley, CA 93065  
USA  
805) 579-1100 • FAX: (805) 579-7800 [www.xmultiple.com](http://www.xmultiple.com)

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