

### XRJB Series RJ45 over Stacked USB Integrated Magnetics

The XMULTIPLE XRJB Series RJ45 connectors with integrated LEDs and magnetics over two stacked ports for USB connectors. The XRJB combo USB/RJ45 is designed as a single package for desktop computers, printers, and other electronic products that have space limitations. The XRJB Combo connector with integrated LEDs is provided as a thru-hole PC board mount. The shield consists of copper alloy base metal with tin-lead plating and copper under plating. The RJ45 jack contacts are overall nickel-plated phosphor bronze, with plated gold in the contact area and tin-lead in the solder area. LEDs and optional magnetics integrated into the combo connector reduce space requirements required for indicators. The LEDs are offered in a variety of color combinations.

Two USB Port and One RJ45/LED Modular Jacks with a Thru-Hole mount are provided shielded with or without panel grounds.

The XRJB Series is designed with a compact profile for a reduced assembly. This product is ideal for devices that have limited space and clearance on a printed circuit board. The XRJB housing consists of a strong construction assuring proper contact and attachment to the printed circuit board.

The XRJB Series is a perfect solution for PC motherboards and networking products. Xmultiple offers versions of this connector with and without the spring tabs.



### Features and Benefits

- Combo USB/RJ45 connectors with LED for thru-hole mounting to PCB
- LEDs integrated directly into jack and maintains compact form requires less space. LEDs provided in a variety of color options
- LEDs located at top of jack for effective visibility
- Type A USB Stacked Connectors
- Custom 10/100/1000 Mbps Magnetics Options Available
- Shielded jacks provide grounding through plane and PC Board
- Reduced labor cost for PCB assembly
- Gold plating and solder tails
- Conforms to IEEE 802.3

# LED MODULAR JACK SPECIFICATIONS

## Electrical- RJ45

- **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

## Electrical- USB

- **Contact Current Rating** – 1A max.
- **Contact Resistance** – 30 milliohms max.
- **Voltage Rating** – 30V AC
- **Dielectric Withstanding Voltage** – 750V AC
- **Insulation Resistance** – 1000 megohms min.
- **Shielding Effectiveness** - 20dB min., 10 to 200 MHz

## Mechanical

- **Durability** - 1500 mating cycles min.
- **Mating Forces** – 3.5kg Max
- **Unmating Forces** – 1.0kg 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

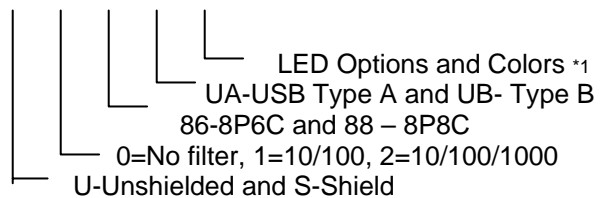
## ORDERING INFORMATION

### XRJB-S-1-86UA-X

Combo USB/RJ/LED Connector

### part Number dash Options

### S -X-86-UA -X



NOTE: \*1 LED Color Chart Available

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