

# **XMULTIPLE**

**Connecting The Information Age**

<http://www.xmultiple.com>



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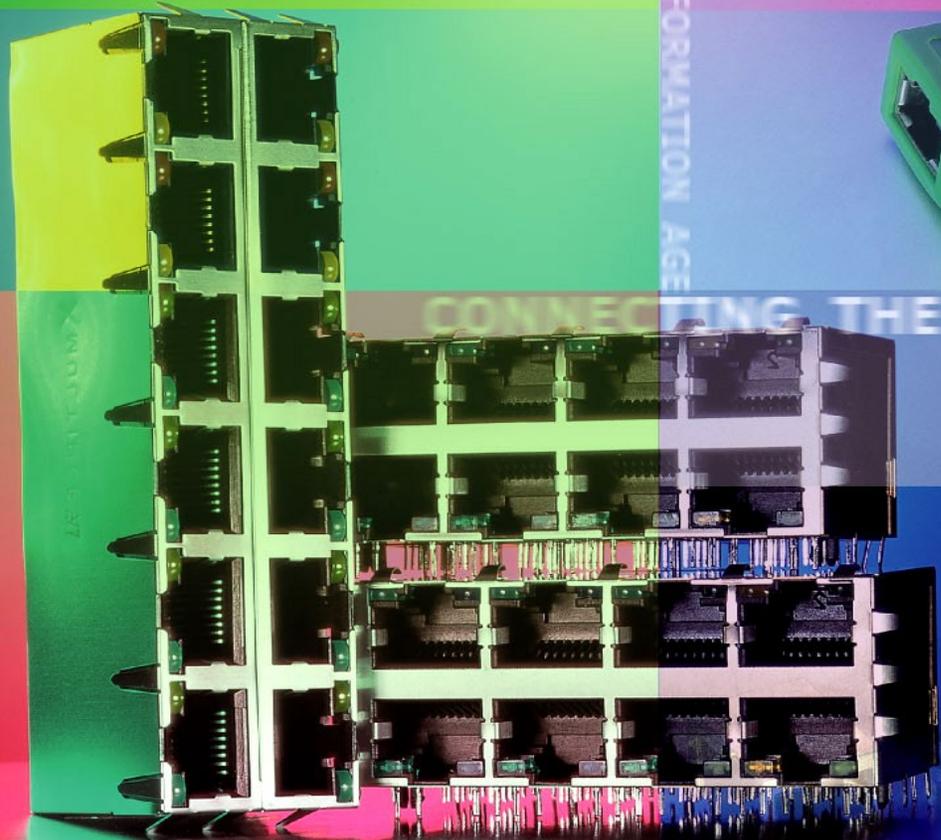
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## Xmultiple Overview

Xmultiple is emerging as a leader for connectivity solutions in the electronics market place. We began in our early years as a designer and manufacturer of connectors for data and telecommunications industry. Xmultiple primarily focused on the RJ PCB, RF, LAN components, SFP/SFP+, HDMI and USB markets. We have an extensive line of RJ connectors with single-port, multi-port and stackable products. Our RJ PCB designs are manufactured with and without magnetics and LEDs. Since then with the rapid growth in the internet, broadband, video, data, audio and VoIP markets, there has been an increasing need to meet the industries requirements for higher speeds and convenience of connection. Xmultiple has concentrated on this market place while expanding our product line of connectors for all interconnection requirements. Xmultiple now is in the forefront of leading the design of products for the future of new connector technology.



There have been many changes in the connector manufacturing market over the last few years. Unfortunately, most of these changes have been the loss of service to the customer. But the philosophy at Xmultiple is to quickly respond to the customers needs, and produce the very best product at a competitive price. With this approach, our customers have a single non-proprietary source for all their connector needs. The people at Xmultiple pride themselves in developing solutions that fulfill our customer's high expectations. This is required of a manufacturer in today's high tech market. Xmultiple has met this challenge and will continue to meet the challenge. Xmultiple has seen it's sales grow year to year, as a result of our approach of providing extremely competitive priced products, fast service and expert support. Xmultiple plans to continue to increase our list of customers by offering the highest level of service and support in our industry. Xmultiple not only is a leading manufacturer of RJ, RF, SFP/SFP+ connectivity products for the data communications, telecommunications, and electronics consumer markets, but we are also leading the way with new and unique connectors, which will benefit our customers. All Xmultiple connectors are RoHS compliant.

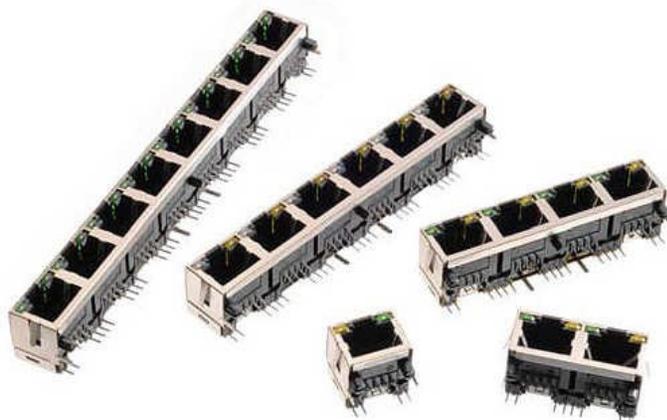


### XRJM and XMM Series

#### Multi-Port LED RJ Connector Jacks

##### Features and Benefits

- > LED integrated directly into jack maintains compact form
- > LEDs provide effective status visibility
- > LEDs provided in a variety of color options
- > LEDs manufactured under license for US. Patent 4,978,317
- > Unshielded and shielded versions in popular size configurations
- > Reduce labor cost for PCB assembly
- > Requires less PCB space
- > Meets or exceeds FCC part 68 rules and regulation
- > Options: 1, 2, 4, 6 and 8 ports.



### XRJD and XMD Series

#### Stacked RJ45 Connector With LED

##### Features and Benefits

- > LED integrated directly into jack maintains compact form
- > LEDs provide effective status visibility
- > LEDs provided in a variety of color options
- > LEDs manufactured under license for US. Patent 4,978,317
- > Unshielded and shielded versions in popular size configurations
- > Reduce labor cost for PCB assembly
- > Requires less PCB space
- > Meets or exceeds FCC part 68 rules and regulation
- > Options: 2x1, 2x2, 2x3, 2x4, 2x6, and 2x8 ports.



### XRJS and XMS Series

#### Surface Mount and integrated with LAN Magnetics

##### Features and Benefits

- > LED integrated into SMT jack maintains compact form
- > LEDs provide effective status visibility
- > LEDs provided in a variety of color options
- > LEDs manufactured under license for US. Patent 4,978,317
- > Unshielded and shielded versions in popular size configurations
- > Reduce labor cost for PCB assembly
- > Internal magnetic options available
- > Requires less PCB space
- > Meets or exceeds FCC part 68 rules and regulation



## XRJF Series

*w/Integrated 10/100 or Gigabit LAN Magnetics*

### Features and Benefits

- > Tab down RJ45 with internal LAN magnetics
- > Suitable for CAT 5 and 6 Fast Ethernet or better UTP
- > Internal magnetic 100% electrically tested for Hi-Pot

### Electrical and Performance Summary

- > Internal magnetic options available
- > Meet or Exceed IEEE 802.3 and IEEE 80203ab standard
- > 350 u H minimum OCL with 8mA bias current
- > High performance for maximum EMI suppression
- > Minimum 1500 Vrms isolation per IEEE 802.3
- > Options: 1 and 4 ports



## XRJG and XMG SERIES

*w/Integrated LED 10/100 or Gigabit LAN Magnetics*

### Features and Benefits

- > Tab down RJ45 with LED & internal LAN magnetics
- > Suitable for CAT 5 and 6 Fast Ethernet or better UTP
- > Internal magnetic 100% electrically tested for Hi-Pot

### Electrical and Performance Summary

- > Internal magnetic options available
- > Meet or Exceed IEEE 802.3 and IEEE 80203ab standard
- > 350 u H minimum OCL with 8mA bias current
- > High performance for maximum EMI suppression
- > Minimum 1500 Vrms isolation per IEEE 802.3
- > Options: 1 and 4 ports



## XRJH and XMH SERIES

*w/Integrated LED 10/100 or Gigabit LAN Magnetics*

### Features and Benefits

- > RJ45 with LED and internal LAN magnetics
- > Staggered and vertical signal pin versions available
- > Internal magnetic 100% electrically tested for Hi-Pot

### Electrical and Performance Summary

- > Internal magnetic options available
- > Meet or Exceed IEEE 802.3 and IEEE 802.3ab standard
- > 350 u H minimum OCL with 8mA bias current
- > High performance for maximum EMI suppression
- > Minimum 1500 Vrms isolation per IEEE 802.3
- > Options: 1x1, 1x4, 2x1, 2x1, 2x4, 2x6 and 2x8 ports



### XRJV and XMV SERIES

#### Vertical Mount RJ/LED Connector Jacks

##### Features and Benefits

- > Vertical Mount LED modular jack for vertical mount to PCB
- > Maintains compact form requires less space
- > LEDs located at top of jack for effective visibility
- > LEDs provided in a variety of color options
- > LEDs manufactured under license for U.S. Patent 4,978,317
- > Unshielded and shielded version in popular size configurations
- > Lower labor cost during assembly of PCB
- > Meets or exceeds FCC part 68 rules and regulation
- > Options; Internal LAN magnetics
- > Options: 1, 2, 4 ports.



### PoE CONNECTOR SERIES

#### Power Over Ethernet Technology

##### Features and Benefits

- > Double Stacked RJ45 with internal LAN magnetics
- > Power over Ethernet (PoE) enabled, compatible IEEE 802.3af
- > Suitable for CAT 5 and 6 Fast Ethernet Cable or better UTP
- > Internal magnetic are 100% electrically tested for Hi-Pot
- > 350 u H minimum OCL with 8mA bias current
- > High performance for maximum EMI suppression
- > Minimum 1500 Vrm isolation per IEEE 802.3i/uaf requirements
- > Options: 1x1, 1x4, 2x1, 2x2, 2x4, 2x6, and 2x8 ports
- > Options: Vertical Mount



### XRJK and XMK SERIES

#### RJ Modular Jack

##### Features and Benefits

- > Different configurations for RJ11 and RJ45 modular jack
- > Available in SMT, Thru-Hole types
- > Optional shielding on RJ45 modular jack
- > 100% test for Hi-Pot and continuity
- > Meets or exceeds FCC part 68 rules and regulations
- > Options: ganged 1, 2, 3, 4, 6, 8 ports and stacked 2x1, 2x2, 2x4, 2x6 and 2x8



## XRJC Series

### *One RJ Connector Is Equal To Two Connectors*

#### Features and Benefits

- > RJ45/RJ11 combo design saves PCB space
- > Thru-Hole or SMT versions available
- > LEDs located at top of jack for effective visibility
- > LEDs provided in a variety of color options
- > LEDs manufactured under license for U.S. Patent 4,978,317
- > Unshielded and shielded version in popular size configurations
- > Reduce labor cost for PCB assembly
- > Meets or exceeds FCC part 64 rules and regulations
- > Options: customized tooling available



## XRJB SERIES

### *RJ45 Over Stacked USB w/Optional Magnetics*

#### Features and Benefits

- > LAN interface available in 6,8,10 pin for 10/100/1000Mbps
- > RJ45/USB stacked design saves on PCB space
- > USB module complies with USB 2.0 standards
- > Meets CAT 5 Fast Ethernet performance standards
- > Magnetics are 100% tested for Hi-Pot
- > Many magnetic and LED options available
- > High performance for maximum EMI suppression
- > Maximum 1500 Vrms isolation per IEEE 802.3 requirements



## CUSTOM PRODUCT DESIGN

### *Submit your Product Needs*

> Xmultiple designs custom products for our customers and potential customers. Your company can provide us the technical requirement for your product needs. We will take rough drawings which you can submit to us. Custom designs are reviewed by our staff and we will let you know within 24 hours if we can provide a quotation for your product. Our technical staff will consult with you during this review process. If we provide a quotation the next step would be for us to provide a detailed drawing which your company will approve before we start production. After you have approved the drawings your company can place your order.



### XRJAX Coax Snap-In SERIES

#### Adapters, Wallplates and Splitters

##### Features and Benefits

> Have you ever had to reach around the back of a television to install a coaxial cable and had trouble aligning and tightening the F connector? Imagine being able to connect coaxial cable as easily as plugging in the telephone. The connector used in XRJAX has the same plug-in form factor as the RJ11 and RJ45 connectors. It consists of a male plug made of plastic or metal with a built-in tab on the top and a female jack made of the plastic with a receiving cavity. Just as in common telephone wire installation, this tab serves as the locking device that, when inserted into the female jack, keeps the cable firmly in place and connected.



### PJ AUDIO CONNECTOR SERIES

#### Audio Connectors (PCB Mount and SMT)

##### Features and Benefits

- > Compact Size for various size configurations
- > Voltage withstands: 500V AC
- > Life: 5,000 cycles
- > Contact Resistance: 100m OHMS MAX
- > Rating: 16V DC @ 300mA
- > Reduce labor cost for PCB assembly
- > Available in many colors
- > 3 and 4 conductors available



### XME FERRITE SERIES

#### Integrated Ferrites Reduce EMI

##### Features and Benefits

> This Xmultiple XME series connectors have integrated ferrites. Ferrites are similar to inductors in some ways but work especially in an area that is parasitic for general purpose inductors. They essentially act as a high impedance, or "resistor" to high frequency EMI/RFI electronic noise. The absorbed energy is converted to heat and dissipated by the ferrite, but only in extreme cases will the heat be noticeable. Ferrites are one of the simplest and least expensive types of interference filters to install on preexisting electronic cabling. For a simple ferrite ring, the wire is simply wrapped around the core through the center typically 5 or 7 times. Clamp-on cores are also available, which can be attached without wrapping the wire at all.





### **XDVI AND XHDMI SERIES**

#### *Digital Visual Interface and HDMI Connectors*

##### **Features and Benefits**

- > DVI—Digital and Digital/Analog versions available
- > DVI Conforms to digital Display Working Group DVI standard
- > DVI number of contacts 24 and 29
- > Plastic color options white and black
- > Xmultiple manufactures a complete line of HDMI
- > HDMI used for Digital TV or Digital Monitors
- > HDMI conforms to standards and is licensed
- > HDMI up to 5 Gigabits/second video and multi-channel audio
- > Xmultiple manufactures emerging Mini HDMI connectors



### **XUSB and MINI USB SERIES**

#### *Universal Serial Bus*

##### **Features and Benefits**

- > Full range of USB connectors: A, B and Mini USB
- > Compatible with USB peripherals of all types
- > Support hot plug
- > Meets USB 1.1 and 2.0 specification
- > Metal shell with back-shield provides EMI/RFI shielding
- > Mini USB for digital cameras
- > Mini USB saves space



### **MEMORY CARD READERS SERIES**

#### *Digital Card Data Storage*

##### **Features and Benefits**

- > Xmultiple is dedicated to indentifying high-quality component sources for the development of high quality products and solutions for the memory card reader marketplace.

Xmultiple supplies products that are in strict compliance with the latest technology specifications.

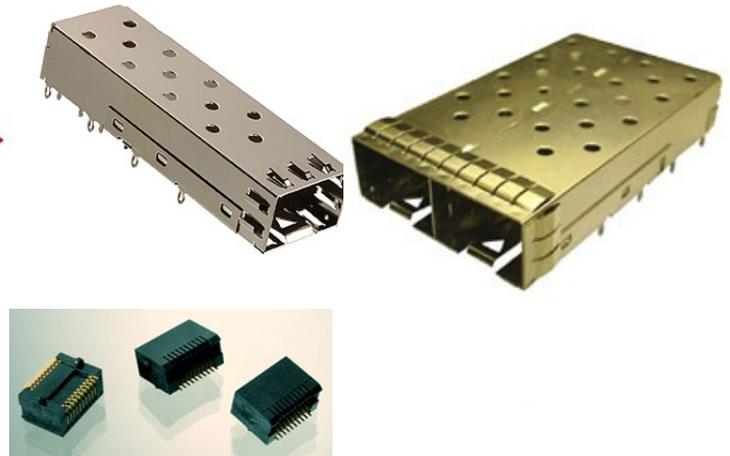


## XSFP Series

### SFP and SFP+ Cages, Connectors and Transceivers

#### Features and Benefits

- > Full range of SFP and SFP+ products
- > Optimal EMI Grounding
- > Optional rear and side-mount lightpipe assembly
- > Spring fingers with two points of contact
- > Contacts are SMT packaged on tape and reel



## CUSTOM CABLE ASSEMBLY

### Cable Solutions For Every Media

#### Features and Benefits

> Providing solutions for custom cable assembly applications is a specialty of Xmultiple. Xmultiple can engineer and manufacture virtually any type of cable assembly. The possibilities are limited only to what you can create. Pictured are several products we have produced from our fast growing list of custom cable assemblies. Each cable assembly is the result of a problem brought to us because of our well-founded reputation for leading design ingenuity, high quality products and excellent customer service. Call us for your special need and let us put our expertise to work for you.



## RF Connectors

### Coaxial Connectors and Cables

Xmultiple Technologies manufactures a complete line of RF connections for every type of application. Our premium line of sub and micro-miniature connectors include SMA, SMB, SMC, MCX, MMCX in various mounting types including cable mount, bulkhead and board mount connectors. Please call us if you do not see the connector for your requirement. Our wide selection of RJ connectors include hard to find versions such as non-magnetic, reverse thread, reverse-polarity, end launch and quick connect. Xmultiple's RF engineering/design team provides **customized RF connector** products for your requirements as well.



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