

# Kinnex A





**K**innexA is an innovative and vibrant research, development and manufacturing company with a global team of dedicated professionals and experts. Our operations are located in Taipei's Neihu Technology Park, with manufacturing facilities in Taiwan and China. KinnexA specializes in designing and manufacturing information technology components and connectors. We continue to expand our high quality products into the Industrial, Commercial, and Automotive sectors in a range of component architectures with special applications in communications, networking, RF/Microwave, testing, measurement, and broadcast.

**CONNECTION, SOLUTION, TECHNOLOGY** We believe in superior solutions as a result of investment in extensive research and development, forged through a strong, quality-focused foundation from which to deliver products to our clients and customers. We meet your needs with conscientious and precise delivery.

**PHILOSOPHY** We build relationships through sincerity and integrity, fostering confidential and secure interactions with our partners. We value your own effort by offering a single, dedicated point of contact. Our team of professionals are multi-cultural and multi-national and understand how to work together and see differences in approach and requirement, working seamlessly to get goals accomplished for you.

**OUR FUTURE** KinnexA is moving forward with innovative connector and component solutions. We are passionate about expanding and growing with our partners and clients, developing strategies to achieve better results in less time with increased profitability through high quality and lower costs.

*Connected by KinnexA*



**ISO**



**SGS**

**OPEN  
ALLIANCE**



# Kinnex



## SAS Connector/SATA/eSATA Series

### Features and Benefits

- Smaller and more flexible design
- Point-to-point connectivity architecture of 16k domain
- Supports dual porting capability, faster spindle speeds
- Up to 6 gigabit/sec transfer rate
- Better air flow through the chassis with thinner cables

### Applications

- Enterprise Storage System
- Mainstream Server
- Desktop
- RAID System Backplane



## PCI Express

### Features and Benefits

- High-temperature thermoplastic housing
- High density centerline contact spacing
- Keying design for easy/correct mating of edge card
- Positive board-to-connector registration
- Complies with industry specification to ensure the connectivity

### Applications

- Desktop Computers and Servers
- Routers and Switches



## Water Proof Connector Series

### Features and Benefits

#### M-Series Waterproof Connectors in M12, M16, and M19 Types.

- Standard screw-type connectors (receptacle, plug)
- Specialized plastics housing reduces weight factor over metal housings
- Lower cost, higher performance with Waterproof IP67 specification.

#### USB Series Waterproof Connectors put creativity back into your device design teams!

- Micro-USB Waterproof connector enables your design team! Smaller, faster, slim and sleek for applications where protection from rain, snow, and water (up to 3 meters) are required.
- Type C Waterproof connectors are similar in form-factor to Micro-USB. However, the Type C connector allows for faster speeds and many more features, including up to 100W power delivery—meaning waterproofing your device is easier than ever.



## USB Series

### Universal Serial Bus Connector

#### Features and Benefits

- Meets USB 1.0, USB 2.0 and USB 3.0 specification
- Plug-and-play technology
- Hot pluggable
- Compatible with asynchronous and isochronous data transfer method
- Available in SMT and Thru-Hole contact
- Complete product range: USB A, B, Mini USB, and Micro USB



## USB Type C Connector Series

### Features and Benefits

- Next Generation USB Type C connector plugs and receptacles. Slimmer, smaller form-factor for sleek designs with improved functionality and performance.
- Super Speed specification – up to 10Gbps and 100W power delivery.
- 24 pin receptacle, 22 pin plug meets USB-IF 3.1 requirements for Type C male and female connectors.
- SMT, Through Hole, and Hybrid types for flexible mounting options on PCB designs.



## USB Type C Cable Assembly Series

### Features and Benefits

- USB Type C Connector cable assemblies cover all your requirements from USB 2.0 specification through the latest 3.1 specification.
- Cable type terminations from Type C to all USB connector types (A, B, Mini, Micro, Displayport)
- All cable termination types according to ISB-IF specifications for USB version 2.0, 3.0, and 3.1
- Passive and Active cable types, USB 3.1 Type C ALT modes

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## SFP / SFP+ Series

### SFP High Speed Connectors

#### Features and Benefits

- Available in 1\*1, 1\*2, 1\*4, 1\*6, 2\*1, 2\*2, 2\*4 and 2\*6 cages
- SFP and SFP+ Cages and Transceiver
- Optional light pipes
- Conductive elastomeric EMI gasket
- Right Angle 20 position connector available
- Compliant to SFP Multi-Source Agreement



## SFP / SFP+ / QSFP / QSFP+ Cable Assembly Series

### Features and Benefits

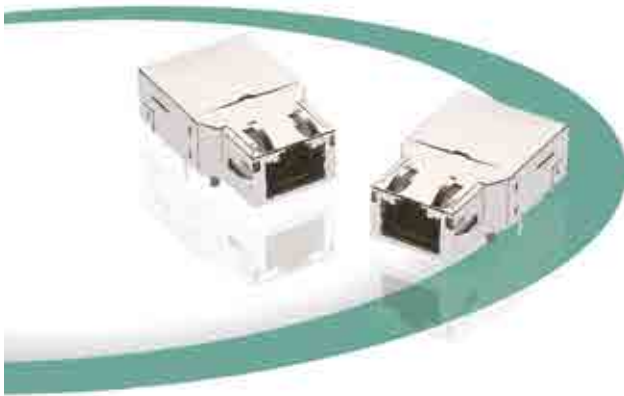
- The SFP+ cables are designed to support applications for 8 Gbps Fiber Channel and 10 Gbps Gigabit Ethernet.
- The SFP+ cable provides up to 11.1 Gbps capability in a space which is 30% smaller than XFP.
- Compliant to QSFP+ SFF-8436 industry standard
- QSFP+ provides up to 10 Gbps data rate



## QSFP/ QSFP+ / zQSFP+ Series

### Features and Benefits

- Single and double lightpipe options
- Enhanced lightpipe design with the least lighting loss
- 3 heatsink height options
- Strengthen design supports pressfit pins
- Cage window for checking configuration status



## Integrated PHY Series

### RJ45 with Magnetics and Ethernet PHY

#### Features and Benefits

- Available 10/100 and Gigabit Ethernet PHY
- Optional Built-in LED as Power/Activity indicators
- Optional 10/100 or 1 Gigabit Magnetics
- Low profile mechanism design
- Allows engineers the ease of Ethernet with a single device
- Guarantee IEEE Compliance
- Support the applications where the physical layer is not included in the base chipset



## RJ45 with 10G Magnetics Series

### 10 Gigabit RJ45

#### Features and Benefits

- Available 1\*1, 1\*4, 2\*1, 2\*4, 2\*6 and 2\*8 ports
- Suitable for CAT 5E, 6, 6A & 7 or better UTP cable
- Optional Magnetics for 10 Gigabit Ethernet Controllers
- Low profile and stacked 2xN mechanism design
- High performance for maximum EMI suppression
- Hi-Pot and functionality are 100% electrically tested
- Minimum of 750 insertion cycles

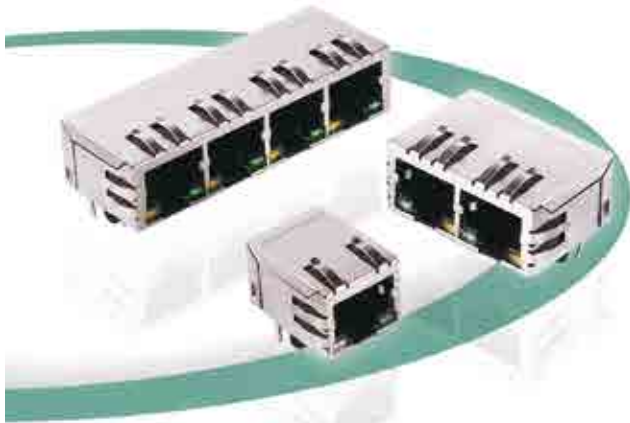


## RJ45 with Power Over Ethernet Magnetics Series

#### Features and Benefits

- Available 1\*1, 1\*2, 1\*4, 2\*1, 2\*2, 2\*4, 2\*6 and 2\*8 ports
- Optional Built-in LED as Power/Activity indicators
- Optional PoE and PoE+ enabled
- High performance for maximum EMI suppression
- Meets or exceeds IEEE 802.3i/u/af standard
- Hi-Pot and functionality are 100% electrically tested
- Minimum of 750 insertion cycles

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## Right Angle, Tab-Down, RJ45 with Magnetics and LED Series

### Features and Benefits

- Available 1\*1, 1\*2 and 1\*4 ports
- Optional LED as Power/Activity indicators
- Optional 10/100 or 1 Gigabit Magnetics
- High performance for maximum EMI suppression
- Appropriate for high-speed Ethernet application
- Hi-Pot and functionality are 100% electrically tested
- Minimum of 750 insertion cycles



## Right Angle RJ45 with Magnetics and LED Series

### Features and Benefits

- Available 1\*1, 1\*2, 1\*4, 2\*1, 2\*2, 2\*4, 2\*6 and 2\*8 ports
- Built-in LED as Power/Activity indicators
- Optional 10/100 or 1 Gigabit Magnetics
- High performance for maximum EMI suppression
- Appropriate for high-speed Ethernet application
- Hi-Pot and functionality are 100% electrically tested
- Minimum of 750 insertion cycles



## Top Entry RJ45 with Magnetics Series

### Features and Benefits

- Optional Built-in LED as Power/Activity indicators
- Optional 10/100 or 1 Gigabit Magnetics
- High performance for maximum EMI suppression
- Optimized for space-limited devices
- Hi-Pot and functionality are 100% electrically tested
- Minimum of 750 insertion cycles



## Stacked RJ45 with LED Series

### Features and Benefits

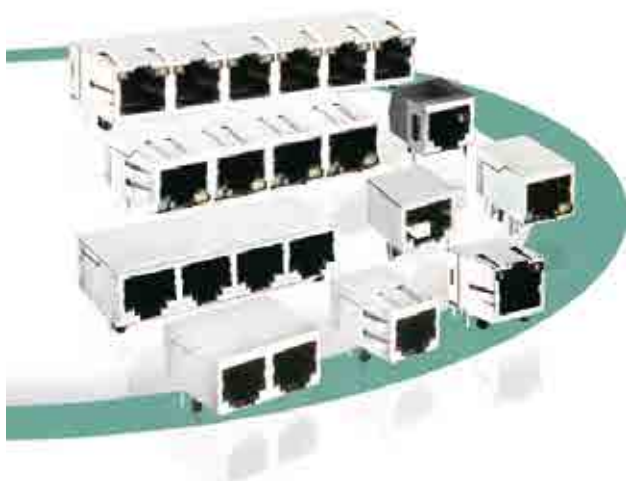
- Available in 2\*1, 2\*2, 2\*3, 2\*4, 2\*6 and 2\*8 ports
- Through Hole contacts
- Easy viewing LED as Power/Activity indicators
- Save PCB space and cost
- Available shielded/unshielded
- Minimum of 750 insertion cycles



## Low Profile, RJ45, Tab-Down, Right Angle with LED Series

### Features and Benefits

- Available 1\*1, 1\*2, 1\*3, 1\*4, 1\*6, and 1\*8 ports
- Optional Built-in LED as Power/Activity indicators
- High performance for maximum EMI suppression
- Optimized for space-limited devices
- Same footprint with stacked series
- Minimum of 750 insertion cycles



## Ganged Modular Jack, Tab-Up / Tab-Down, Right Angle Series

### Features and Benefits

- Available RJ45 and RJ11, with/without LED
- Available in 1, 2, 4, 6, and 8 ports
- Available in 4, 6, and 8 position plastic housing
- Through Hole contacts
- Optional LED as Power/Activity indicators
- Available shielded/unshielded
- Minimum of 750 insertion cycles

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## RJ and USB Combo Series

### Features and Benefits

- Available with 1 or 2 USB
- LED as Power/Activity indicators
- Optional 10/100 or 1 Gigabit Magnetics
- Optional USB 2.0 and USB 3.0 compliance
- High performance for maximum EMI suppression
- Hi-Pot and functionality are 100% electrically tested
- Minimum of 750 insertion cycles



## Modular Jack with SMT Contact Series

### Features and Benefits

- Available RJ45 and RJ11, with/without LED
- SMT contacts
- Easy viewing LED as Power/Activity indicators
- Save PCB space and cost
- Available shielded/unshielded
- Minimum of 750 insertion cycles



## Top Entry RJ45 and RJ11 Series

### Features and Benefits

- Available 1\*1, 1\*2, 1\*4, and 2\*4 ports
- Optional Built-in LED as Power/Activity indicators
- High performance for maximum EMI suppression
- Optimized for space-limited devices
- Minimum of 750 insertion cycles



## OABR (OPEN Alliance BroadR Reach)

### Features and Benefits

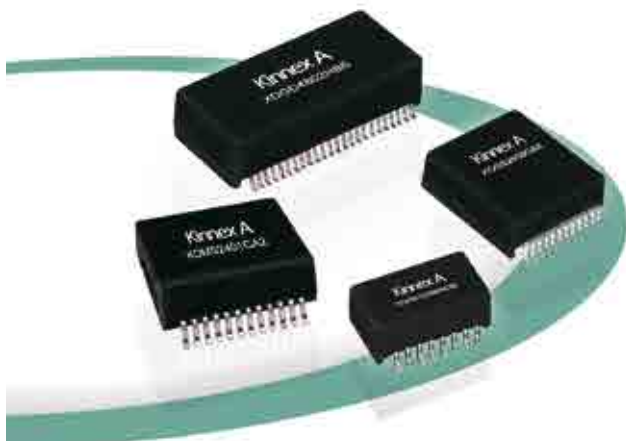
- The OPEN (One Pair Ether Net) Alliance brings together the most forward-thinking, technically creative and experienced companies in the automotive industry and beyond. Discrete, modular Ethernet network architecture opens up creative design teams to new opportunities derived from smaller form factors, less weight, and faster bandwidth within a very mature communications protocol.
- KinnexA is an OPEN Alliance SIG (Special Interest Group) member. We are actively researching and developing the mid to long term solutions based on the specifications agreed to by our mutual Alliance members such as Daimler, BMW, Mercedes Benz, Ford, General Motors, Toyota, Volvo, Renault, along with major silicon chip players such as Broadcom, NXP, Bosch, Freescale, and connector and cable assembly manufacturers like ourselves at KinnexA.



## NGFF Connector Series

### Features and Benefits

- 67 pin with 0.5mm pitch
- Designed for both single and double-sided modules
- Compatible to USB 3.0, SATA 3.0 and PCI Express 3.0
- Available in various height and keying options
- Save PCB size and cost
- Lower the connector height
- Support faster data rates
- Good mating with different interfaced module cards
- Meet customers' design with wide product range



## LAN Discrete Modules Series

### Features and Benefits

- Available for 10/100, 1 Gigabit, and 10 Gigabit
- Available for 1, 2, and 4 port
- Available PoE function
- Available SMT and Thru-Hole contact
- Meet IEEE 802.3 specification
- Compact footprint design

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Connected by KinnexA



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