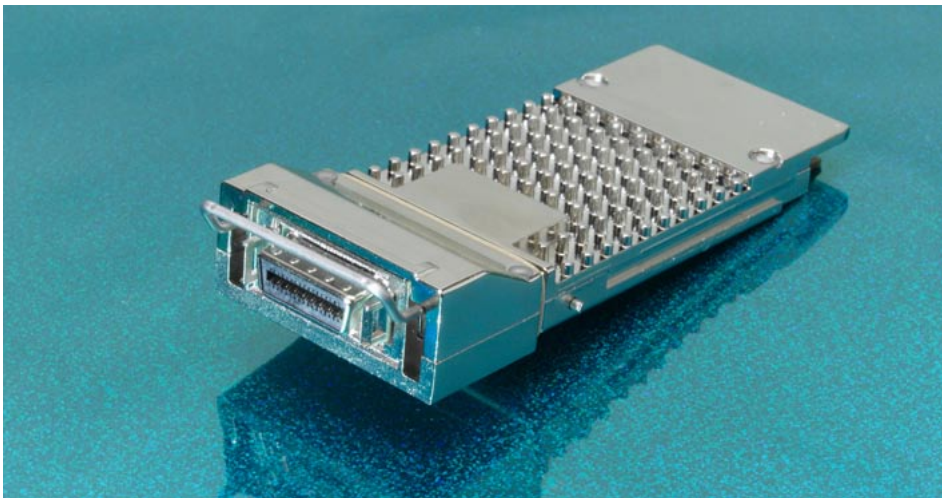
XPAK 10 Gbps Transceiver

74739

Molex's XPAK Pluggable Copper Transceiver meets broad market demands for high-speed interconnects for distances up to 15 meters

Molex's XPAK copper transceiver is designed for high-speed, 10 Gigabit Ethernet applications. The transceiver design is based on a 3.125 Gbps XAUI (10 Gigabit Attachment Unit Interface) to XAUI re-timer, with transmit pre-emphasis and receive equalization. This design ensures the signal can be boosted to compensate for signal loss at high frequencies. Pre-emphasis is achieved by boosting the high-frequency content of a transmitted signal or attenuating low-frequency content to compensate for high-frequency loss in the cable assembly. Receiver equalization is a similar process applied to the receiver. The re-timer also incorporates clock and data recovery as well as XAUI lane alignment.

The Molex XPAK transceiver utilizes an industry standard 10Gbase CX4 cable interface (LaneLink™ series 74526) and combines with the XPAK Electro Magnetic Interference (EMI) guide rail (Z-Axis Pluggable series 74732) and 70-circuit XPAK connector (Molex Part 74441-0013) for a total system solution. The Molex pluggable 10 Gbps transceiver meets Gigabit Ethernet standards IEEE 802.3ak for CX4 and IEEE 802.3ae for XAUI.



For more information on Molex's extensive XPAK product offering, please visit: www.molex.com/product/xpak.

Features and Benefits

- Transmits 10 Gbps data up to 15 meters over Copper (Cu) cable enabling high-speed data transmission
- Hot-swappable design enables transceiver to be removed or installed without powering-down
- Zinc diecast backshells provide 360° Electro Magnetic Interference (EMI) shielding
- Designed to meet Gigabit Ethernet standards IEEE 802.3ak for CX4 and IEEE 802.3ae for XAUI for compliance with XPAK MSA

SPECIFICATIONS

Reference Information
Packaging: Static resistant bag and box
Mates with: Host Connector (Series 74441), CX4 Cable Assembly (Series 74526)
Use with: XPAK Rail (Order No. 74732-0220)
Designed In: Millimeters

Electrical
Voltage: 3.3V at 567mA, 1.5V at 1554mA
Current: 3.3V at 567mA, 1.5V at 1554mA

Mechanical
Mating Force:
Min.: 20N (4.5 lbf)
Max.: 40N (9 lbf), 80N (18 lbf) max. allowed by MSA
Unmating Force:
Min.: 8N (1.79 lbf)
Max.: 35N (7.9 lbf)
Durability: 100 cycles

Physical
Housing: Zinc (Zn)
Housing Plating: Nickel (Ni)
PCB Contact: 0.76µm (30µ") Gold (Au)
PCB Thickness: 1.00mm (.393") +/- 0.10mm (.004")
Operating Temperature: -40 to +85° C

APPLICATIONS

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- Telecommunication
  - Hubs
  - Servers
  - Routers
- Data Communication
- Storage Area Network
- Industry Standards
  - XPAK MSA
  - IEEE 802.3ak CX4
  - IEEE 802.3ae XAUI

ORDERING INFORMATION

Order No.	Description
74739-0001	XPAK Transceiver

Americas Headquarters
Lisle, Illinois 60532 U.S.A.
1-800-78MOLEX
amerinfo@molex.com

Far East North Headquarters
Yamato, Kanagawa, Japan
81-462-65-2324
feninfo@molex.com

Far East South Headquarters
Jurong, Singapore
65-6-268-6868
fesinfo@molex.com

European Headquarters
Munich, Germany
49-89-413092-0
eurinfo@molex.com

Corporate Headquarters
2222 Wellington Ct.
Lisle, IL 60532 U.S.A.
630-969-4550
Fax:630-969-1352

Visit our website at www.molex.com/product/xpak_transceiver.html

Order No. USA-343

Printed in USA/JI/2006.03