

Ethernet ICs 10/100 BASE-TX/FX Physical Layer Transceiver, Single 3.3V Supply, I-Temp

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	SSOP-48
Product Type	Interface ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for KSZ8721BI or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

Operating at 2.5 volts to meet low voltage and low power requirements, the KSZ8721 is a 10BaseT/100BaseTX/FX Physical Layer Transceiver, which provides an MII to transmit and receive data. It contains the 10BaseT Physical Medium Attachment (PMA), Physical Medium Dependent (PMD), and Physical Coding Sub-layer (PCS) functions. Moreover, the KSZ8721 has on-chip 10BaseT output filtering, which eliminates the need for external filters and allows a single set of line magnetics to be used to meet requirements for both 100BaseTX and 10BaseT. The KSZ8721 can automatically configure itself for 100 or 10 Mbps and full or half duplex operation, using on-chip Auto-Negotiation algorithm. It is an ideal choice of physical layer transceiver for 100BaseTX/10BaseT applications. Microchip's complimentary and confidential LANCheck® online design review service is available for customers who have selected our products for their application design-in. The LANCheck online design review service is subject to Microchip's Program Terms and Conditions and requires a myMicrochip account.

Please consider this device KSZ8081, KSZ8091

## Features

Single chip 100BaseTX/100BaseFX/10BaseT physical layer solution

2.5V CMOS design, power consumption <200mW (excluding output driver current)

Fully compliant to IEEE 802.3u standard

Supports Media Independent Interface (MII) and Reduced MII (RMII)

Supports 10BaseT, 100BaseTX and 100BaseFX with Far\_End\_Fault Detection

Supports power down mode and power saving mode

Configurable through MII serial management ports or via external control pins

Supports auto-negotiation and manual selection for 10/100Mbps speed and full/half-duplex mode

On-chip built-in analog front end filtering for both 100BaseTX and 10BaseT

LED outputs for link, activity, full/half duplex, collision, and speed

Supports back to back, FX to TX for media converter applications

Supports MDI/MDI-X auto crossover

2.5V/3.3V tolerance on I/O

Commercial temperature range: 0°C to +70°C

Industrial temperature range: -40°C to +85°C

Available in 48-pin LQFP, SSOP and TQFP packages

## Related Products



### [KSZ8081MLXIA](#)

Microchip Technology, Inc  
LQFP-48



### [KSZ8721BT](#)

Microchip Technology, Inc  
TQFP-48



### [KSZ8721BLLI-TR](#)

Microchip Technology, Inc  
LQFP-48



### [KSZ8091RNAIA-TR](#)

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VQFN-24



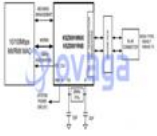
### [KSZ8041NLI-TR](#)

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