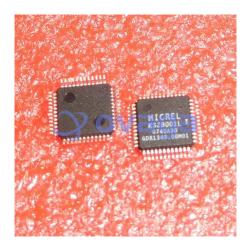
🔉 ovaga

KSZ8001L

Data Sheet

Ethernet Controller, 100 Mbps, IEEE 802.3u, 1.71 V, 1.89 V, LQFP, 48 Pins

Manufacturers	Microchip Technology, Inc
Package/Case	LQFP-48
Product Type	Integrated Circuits (ICs)
RoHS	Green
Lifecycle	



Images are for reference only

Please submit RFQ for KSZ8001L or Email to us: sales@ovaga.com We will contact you in 12 hours.

<u>RFQ</u>

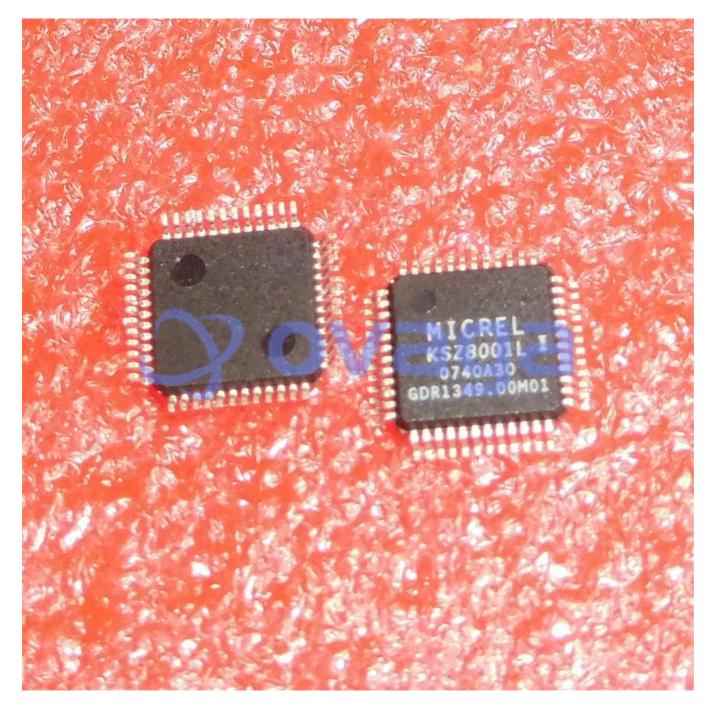
General Description

The KSZ8001 is a 10BASE-T/100BASE-TX/100BASE-FX Physical Layer Transceiver, operating the core at 1.8 volts to meet low voltage and low power requirements. The solution provides MII/RMII/SMII interfaces to transmit and receive data. A unique mixed-signal design extends signaling distance while reducing power consumption.HP Auto MDI/MDI-X provides the most robust solution for eliminating the need to differentiate between crossover and straight-through cables.Featuring LinkMD cable diagnostics, which allows detection of common cabling plant problems such as open and short circuits, the KSZ8001 represents a new level of features and performance and is an ideal choice of physical layer transceiver for 100BASE-TX/10BASET/100BASE-FX 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 deviceKSZ8081,KSZ8091

Features

Single chip 100BASE-TX/100BASE-FX/10BASE-T physical layer solution 1.8V CMOS design, power consumption 250 mW Robust (130m+) operation over standard cables Supports Media Independent Interface (MII), Reduced MII (RMII), and Serial MII (SMII) LinkMD feature to determine cable length and diagnose faulty cables up 200m with $\pm 2m$ accuracy Configurable through MII serial management port or via external control pins Programmable LED outputs for link, activity, full/half duplex, collision, and speed On-chip built-in analog front end filtering for both 100BASE-TX and 10BASE-T Supports HP MDI/MDI-X auto crossover Supports power down mode and power saving mode MDC/MDIO to 12.5 MHz for rapid configuration Fully compliant to IEEE 802.3u standard Supports auto-negotiation and manual selection for 10/100Mbps speed and full/half-duplex mode Supports back-to-back, 100BASE-FX to 100BASE-TX for media converter applications Single 3.3V power supply with built-in 1.8V regulator ('L' parts) Available in 48-Pin LQFP and 48-Pin SSOP packages



Related Products



<u>KSZ9563RNXI</u>



Microchip Technology, Inc VQFN-64

KSZ9896CTXI-TR

Microchip Technology, Inc TQFP-128

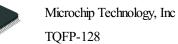


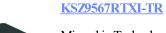
KSZ9477STXI-TR Microchip Technology, Inc TQFP-128

KSZ9563RNXC

Microchip Technology, Inc VQFN-64

KSZ9896CTXC





Microchip Technology, Inc TQFP-128

KSZ9567RTXI



Microchip Technology, Inc TQFP-128



KSZ8795CLXCC

Microchip Technology, Inc LQFP-80