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KSZ8041FTL

Data Sheet

Ethernet Controller, 100 Mbps, IEEE 802.3, IEEE 802.3u, 3.135 V, 3.465 V, TQFP, 48 Pins

Manufacturers	Microchip Technology, Inc	
Package/Case	TQFP-48	Distantion of the second
Product Type	Interface ICs	The second second
RoHS	Green	
Lifecycle		Images are for reference only
Please submit RFQ for KSZ8041FTL or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ		

General Description

The KSZ8041 is a single supply 10Base-T/100Base-TX Physical Layer Transceiver, which 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.The KSZ8041 represents a new level of features and performance and is an ideal choice of physical layer transceiver for 10Base-T/100Base-TX applications.The KSZ8041RNL is an enhanced RMII version of the KSZ8041NL that does not require a 50MHz system clock. It uses a 25MHz crystal for its input reference clock and outputs a 50MHz RMII reference clock to the MAC.The KSZ8041NL and KSZ8041RNL are available in 32-pin, lead-free QFN packages. The KSZ8041TL and KSZ8041FTL are available in 48-pin, lead-free TQFP packages. The KSZ8041MLL is provided in the 48-pin, lead-free LQFP package.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.

Features

Single-chip 10Base-T/100Base-TX physical layer solution Fully compliant to IEEE 802.3u Standard Low power Power consumption of <180mW Power down and power saving modes Built-in 1.8V regulator for core Single power supply (3.3V)HP auto MDI/MDI-X for reliable detection and correction for straight-through and crossover cables with disable and enable option Robust operation over standard cables MII interface support (KSZ8041NL only) **RMII Interface Support** External 50MHz system clock (KSZ8041NL or KSZ8041TL/FTL) 25MHz crystal/clock input and 50MHz reference clock output to MAC (KSZ8041RNL) SMII Interface Support External 125MHz system clock and 12.5MHz sync clock from MAC (KSZ8041TL/FTL only) Fiber support 100Base-FX (KSZ8041FTL only) MIIM (MDC/MDIO) management bus to 6.25MHz for rapid PHY register configuration Interrupt pin option Programmable LED outputs for link, activity and speed ESD rating (6kV) Variety of Packages 32-pin QFN (5mm x 5mm) 48-pin LQFP (KSZ8041MLL) 48-pin TQFP (KSZ8041TL/FTL)

Related Products



KSZ8081MLXIA

Microchip Technology, Inc LQFP-48



KSZ8721BT

Microchip Technology, Inc TQFP-48



KSZ8721BLI-TR Microchip Technology, Inc

LQFP-48



<u>KSZ8041NLI-TR</u>

Microchip Technology, Inc VQFN-32



KSZ8091RNBCA Microchip Technology, Inc

VQFN-32



KSZ8091RNAIA-TR

Microchip Technology, Inc VQFN-24

KSZ8721B

Microchip Technology, Inc SSOP-48

KSZ8061MNGW

Microchip Technology, Inc VQFN-48