

KSZ84xx EtherSynch™ IEEE 1588v2 Ethernet Product Family

KSZ8462HLI — EtherSynch IEEE 1588v2 3-Port 10/100 Switch with Generic Host Bus Interface

APPLICATIONS



INDUSTRIAL CONTROL



SMART GRID



DATA ACQUISITION



MOBILE BACKHAUL



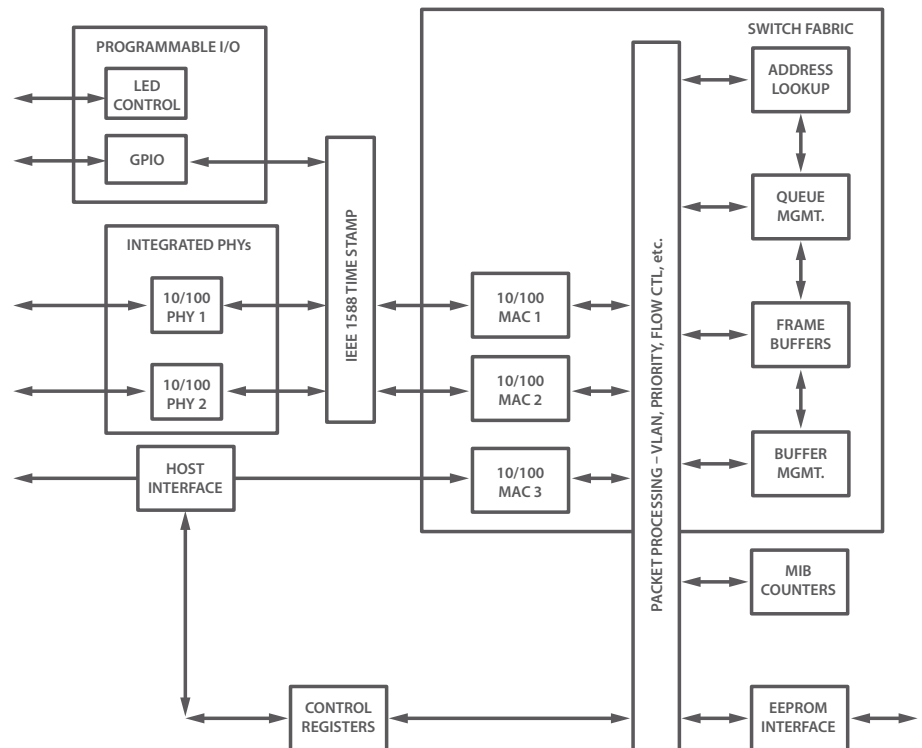
AUDIO/VIDEO
STREAMING

BENEFITS

- » **Supports ordinary, master, slave, and transparent clocks in a single device**
- » **Reduces host CPU processing load and network traffic**
- » **Extends system synchronization to locally-connected devices**
- » **Reduces board resources and BOM costs**

FEATURES

- Comprehensive PTP clock modes
- Hardware-assisted PTP implementation
- Extensive GPIO synchronized to precision clock
- Compact 10mm x 10mm, 64-pin, LQFP package
- Lowest power consumption with energy efficient Ethernet support



KSZ84xx EtherSynch™

DESCRIPTION

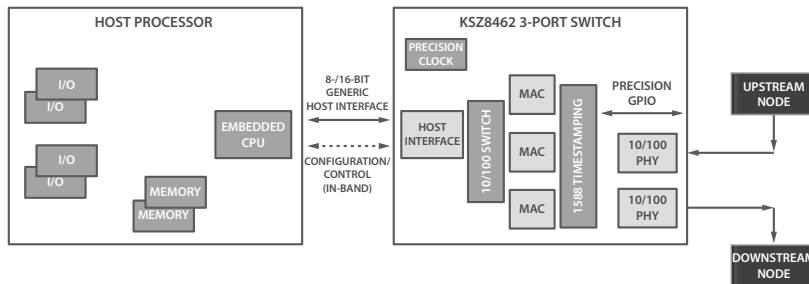
The KSZ8462 switch family enables end-device attachments for industrial Ethernet and electrical substation automation networks. Key applications include industrial Ethernet standards, including EtherNet/IP™, PROFINET®, and Modbus TCP™, along with IEC 61850 standard for substation communications.

The KSZ8462 switch simplifies integration with Host CPUs that do not provide embedded Ethernet MACs and has been optimized to offload synchronization and communications host processing through its hardware-intensive architecture.

Micrel offers a precision timing protocol (PTPv2) synchronization stack solution integrated with the KSZ8462 driver to accelerate the design cycle. The KSZ8462 switch is also interoperable with leading third-party PTP stacks.

Micrel features the industry's most robust and cost-effective Ethernet switches and physical layer transceivers, built upon Micrel's low-power physical layer technology, advanced power management, and innovative design.

KSZ8462 READILY INTEGRATES WITH HOST CPUs THAT DO NOT PROVIDE AN EMBEDDED ETHERNET MAC



Micrel, Inc. is a leading global manufacturer of IC solutions for the worldwide high performance linear and power, LAN, and timing and communications markets. The Company's products include advanced mixed-signal, analog and power semiconductors, and high performance communication, clock management, Ethernet switch, and physical layer transceiver ICs. Company customers include leading manufacturers of enterprise, consumer, industrial, mobile, telecommunications, automotive, and computer products. Corporation headquarters and state-of-the-art wafer fabrication facilities are located in San Jose, CA, with regional sales and support offices and advanced technology design centers situated throughout the Americas, Europe, and Asia. In addition, the Company maintains an extensive network of distributors and reps worldwide.



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