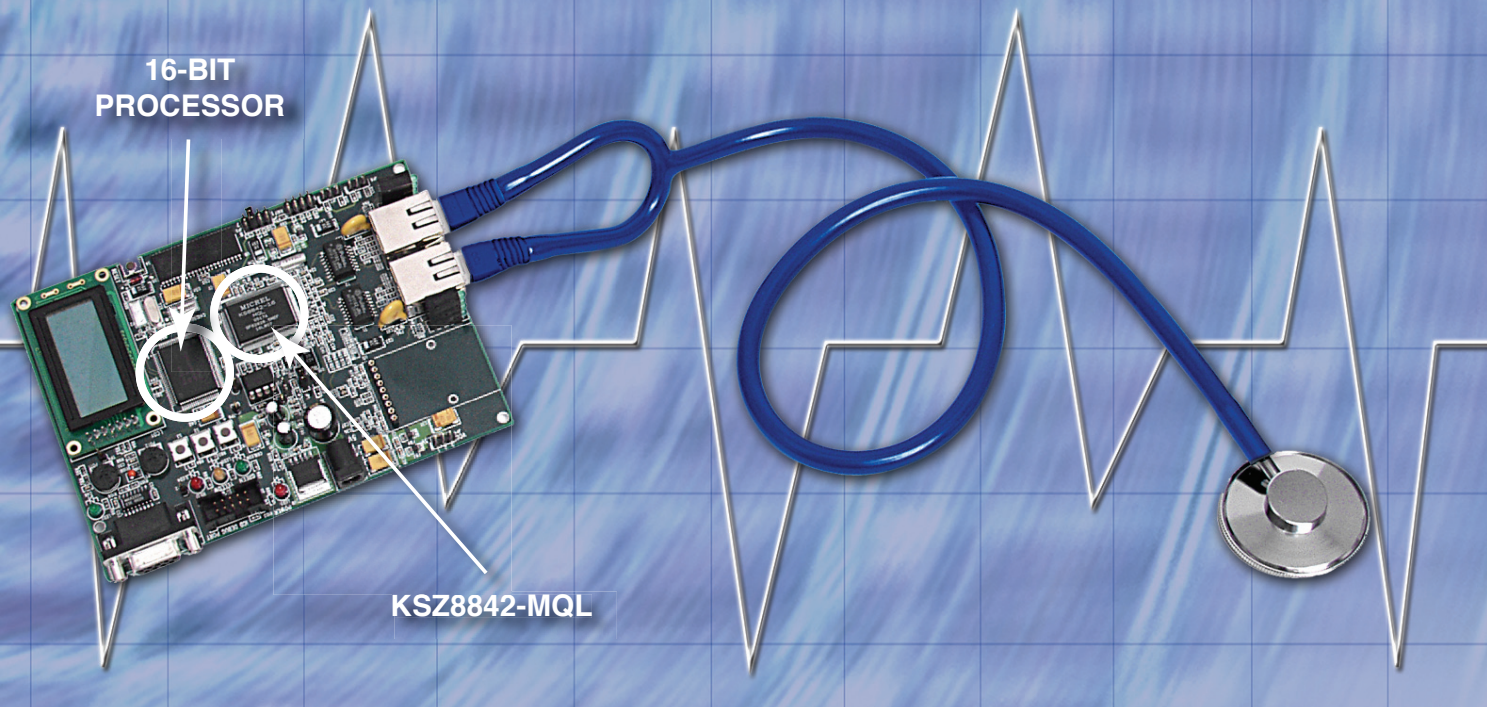


The Doctor Is In: Industry's First Embedded 2-Port Ethernet Device with LinkMD™

Reduce Maintenance Costs With Micrel's LinkMD Cable Diagnostics



KSZ8842-16MQL and KSZ8842-32MQL managed switches are the industry's first fully managed 2-port switch with a non-PCI CPU interface. The KS8842 is a proven, 4th generation, integrated Layer 2 switch that is compliant with the IEEE 802.3u standard.

The KS8842M can also be configured as a low-latency repeater to allow for 'cut thru' in latency-critical Embedded or Industrial Ethernet applications. For industrial automation applications in the repeater mode, the KS8842M runs in half-duplex mode regardless of the application.

The KS8842M offers an extensive feature set that includes tag/port-based VLAN, QoS priority management, MAC filtering function, MIB counters, and CPU control/data interfaces to effectively address both current and emerging Fast Ethernet applications.

The KSZ8842-16MQL/-32MQL contains two 10/100 transceivers with patented mixed-signal low-power technology, two media access control (MAC) units and a direct memory access (DMA) channel, a high-speed non-blocking switch fabric, a dedicated 1K entry forwarding table, and an on-chip frame buffer memory.

For more information, contact your local Micrel sales representative or visit us at: www.micrel.com/ad/ks884x.
Literature: 1 (408) 435-2452 Information: 1 (408) 944-0800

The Good Stuff:

The KSZ8842-16MQL/-32MQL offers all of the features of an integrated Layer 2 managed switch plus:

- ◆ Fully compliant with the IEEE 802.3u standard
- ◆ Repeater mode capabilities to allow for 'cut-thru' in latency-critical Industrial Ethernet or Embedded Ethernet applications
- ◆ Four priority queues to handle voice, video, data and control packets
- ◆ MAC filtering function to filter unicast packets
- ◆ Dynamic buffer memory scheme – Essential for applications such as Video over IP where image jitter is unacceptable
- ◆ 2-Port switch with flexible 8/16 or 32 bit generic host processor interface
- ◆ Micrel LinkMD cable diagnostic capabilities to determine cable length, diagnose faulty cables, and determine distance to fault
- ◆ HP Auto MDI-X crossover with disable and enable option
- ◆ Industrial Temperature support: (-40°C to +85°C) with the KSZ8842-16MVL available from Q2 2006

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