JMC260

PCI Express Fast Ethernet Controller
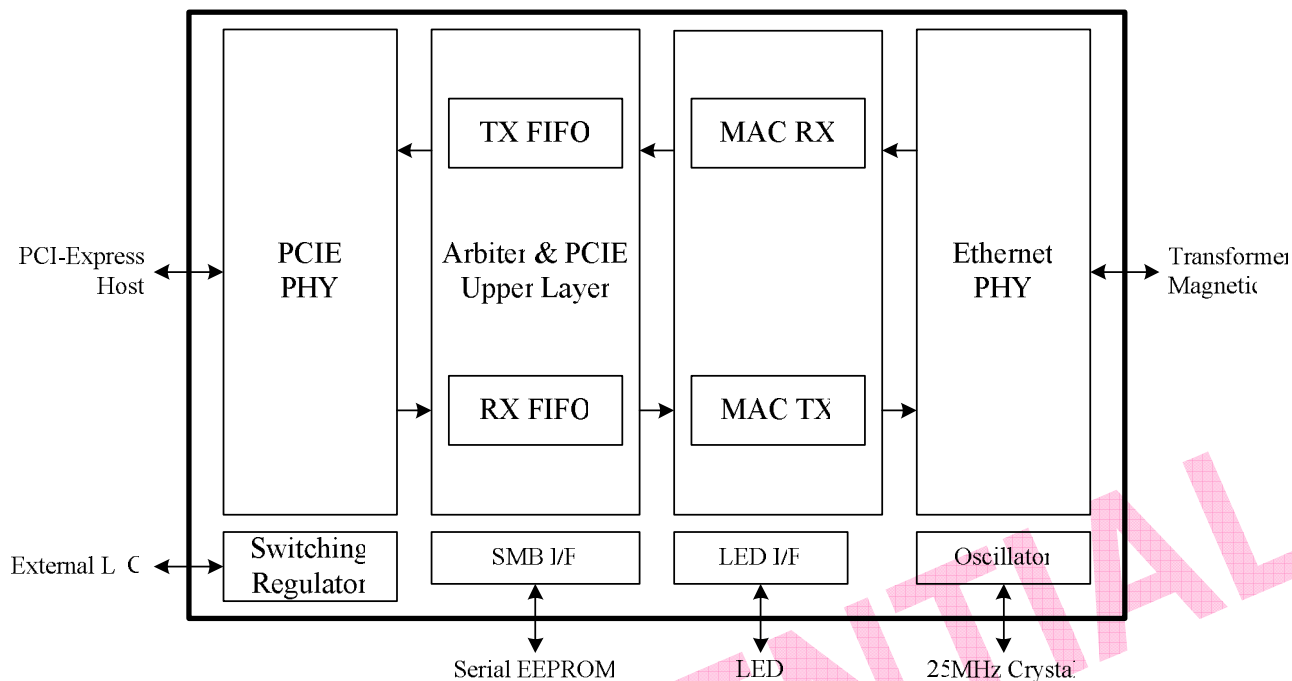
- **Overview**

    The JMC260 is a single-chip PCI-Express Fast Ethernet Controller. The Ethernet function is compliant to IEEE 802.3 Media Access Controller, and IEEE 802.3u 100BASE-TX/10BASE-T. The MAC supports IPV4, IPV6, TCP, UDP checksum, segmentation task-offload, priority encoding and IEEE802.1Q VLAN features. It also supports Receive Side Scaling (RSS) to balance the loading for multiple CPUs. The Ethernet function supports remote wakeup (including AMD Magic Packet™ and Microsoft® Wake-up frame) in both ACPI and APM (Advanced Power Management).

- **Features**
    - ✓ Compliant with PCI Express Base Spec. Revision 1.1
    - ✓ Integrated one-lane 2.5GHz PCI Express PHY
    - ✓ Support multi-entry MSI and multi-vector MSI-X.
    - ✓ Compliant with IEEE 802.3, IEEE 802.3u, and IEEE 802.3ab
    - ✓ Integrated 10/100Mbps transceiver
    - ✓ Support Auto Negotiation
    - ✓ Support Wake-on-LAN
    - ✓ Support Microsoft® NDIS 5, NDIS6 Checksum Offload (IPv4, IPv6, IP, TCP, UDP)
    - ✓ Support Microsoft® NDIS 5, NDIS6 Transmit Segmentation Task-offload (Large/Giant send)
    - ✓ Support Receive Side Scaling (RSS)
    - ✓ Support IEEE 802.1P Layer 2 Priority Encoding
    - ✓ Support IEEE 802.1Q VLAN insertion and removal
    - ✓ Support jumbo frame
    - ✓ Integrated switching regulator, and single 3.3V power source
    - ✓ External 25MHz crystal
    - ✓ 64-pin LQFP package
    - ✓ Pin-to-pin compatible to JMC250.

Product Brief

● **Block Diagram**

● **Contact Information**
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Product Brief