



# MCS7830

## USB 2.0 to Ethernet

### Features

- Fully IEEE 802.3 compliant 10/100 Mbits/sec Ethernet MAC layer.
- Provides full duplex operation on both 100 Mbps and 10 Mbps Ethernet modes.
- Supports remote wakeup (wake on LAN).
- Exhaustive Ethernet MAC status report.
- Supports PAUSE control frame.
- USB specification 2.0 compliant.
- supports all USB standard commands.
- supports three vendor specific commands.
- Supports USB Suspend/Resume detection logic.
- Supports chirping and ping protocol.
- Provides serial interface for read 93LC46B EEPROM.
- automatically loads device ID from EEPROM after power - on reset.
- EEPROM can be programmed through USB port.

### Applications

- Add-on 10/100 dongle
- Instrumentation
- Embedded applications

### Application Note

- AN7830

### Evaluation Board

- MCS7830-EVB

### General Description

The USB to Ethernet MAC Controller is a unique solution to interface peripheral devices to Universal Serial Bus 2.0 (USB 2.0) and 10BT/100TX Ethernet. This device has been specially designed to provide simple solution to communicate with Ethernet applications accomplished by its highly integrated functionality. It is ideal for LAN (Local Area Network) applications. It provides internal buffering to enable parallel operations from USB ports on host side and Ethernet MAC ports on the Ethernet bus. It also provides serial interface for EEPROM storing device ID. This chip provides low power 0.25um, 3.3V/5.5V I/O tolerance, and 128-Pin package.

### Ordering Information

Commercial Grade		
MCS7830CQ	128-LQFP	0° C to +70° C