10/100M Ethernet Daughter Card
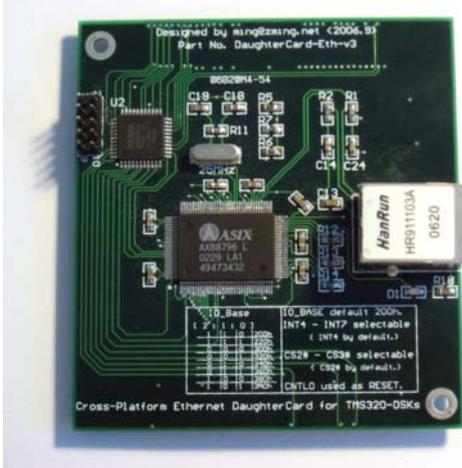
For Texas Instrument TMS320 DSP Starter Kit
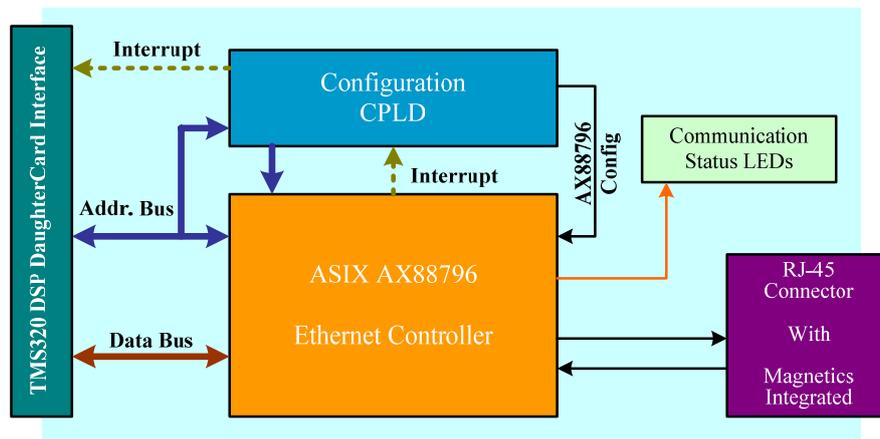
Features

- 10/100 Mbit/s Ethernet Controller (MAC and PHY)
- Based on ASIX AX88796 Ethernet controller
- 16 KByte of on-board FIFO buffer memory
- Communication status LEDs
- User options, interrupter and chip address configurable with CPLD
- Real-time OS "uC/OS-II" and TCP/IP Protocol Stack "lwIP" port available in this project (ucos-lwip-c6x).
- Tested driver software available as open source under BSD License
- Compliant with "Texas Instruments TMS320 Cross-Platform Daughtercard Specification v1.0".

Part No. DaughterCard-Eth-v3

Description

The 10/100M Ethernet DaughterCard has been designed as a communications upgrade for Texas Instruments TMS320 DSP Starter Kits (DSK). The daughter card is based on the AX88796 Ethernet Controller from ASIX Electronics Corporation, which performs the MAC and PHY layers of the Ethernet communication standard, as well as providing 8k*16bits of FIFO buffer memory.

The ethernet daughtercard has been designed compliant with "Texas Instruments TMS320 Cross-Platform Daughtercard Specification v1.0". So, it should support Texas Instruments TMS320 C5000 and C6000 DSKs. (The driver for TMS320 C6711 DSK was available in this project with source code, and that could be used as a driver template.)

As a result of this project, the lwIP TCP/IP Protocol Stack and uC/OS-II real-time OS has run together very well on a TMS320 C6711 DSK with this daughtercard. And, you can also use lwIP just on DSP/BIOS if you like.

Ordering Information

To build up a DSP platform with Ethernet connection, you can just download our schematic files (*DaughterCard-Eth-v2*) as a reference and produce your own Ethernet daughtercard.

But if you want to do some rapid development, you can order a daughtercard from us.
Just click the following button on our web page and make payment with *PayPal*.

Part No. DaughterCard-Eth-v3

Price: $200.00 USD (Shipping cost would be about $50 USD via UPS)

PayPal
CLICK HERE TO BUY

The deliver pack will contain following items:
- Ethernet Daughter Card Module. (4-layers PCB, Part No. DaughterCard-Eth-v2)
- CD-ROM with all source code, documents and schematic files of this project.
- Cat. 5 UTP Network Cable