

Summary

- Altera FPGA
- Options:
 - Altera 10K50E
 - Altera 10K100E
 - Altera 10K130E
- 1 Mbyte SRAM
- SRAM is dual ported
- Separate logic for the IP interface
- Reconfigurable I/O
- 48 I/O lines, 24 pair
- LVDS drivers
- User configurable IO by groups of 4, 2 pair
- Programmable via IP bus or bit/byte blaster
- Local serial Eprom
- Internal / External clock
- 8/32 Mhz IP clock support
- Vita 4 compliant



USER RECONFIGURABLE ALTERA FPGA, 1MBYTE DUAL-PORTED SRAM LVDS I/O DRIVERS



IP-ALTERA10K50E-LVDS

Features

- Altera FPGA 10K50E, 10K100E or 10K130E
- Stand alone possibility
- Single wide Industry Pack
- SN65MLVD204AD LVDS drivers
- Optional User clock oscillator

Memory

- 1 Mbyte external SRAM
- Dual ported between the Altera and IP bus with arbitration

I/O Level

- LVDS

Programmable via

- Bit / Byte Blaster
- Serial Eprom
- IP Bus
- Multiple example

IP interface

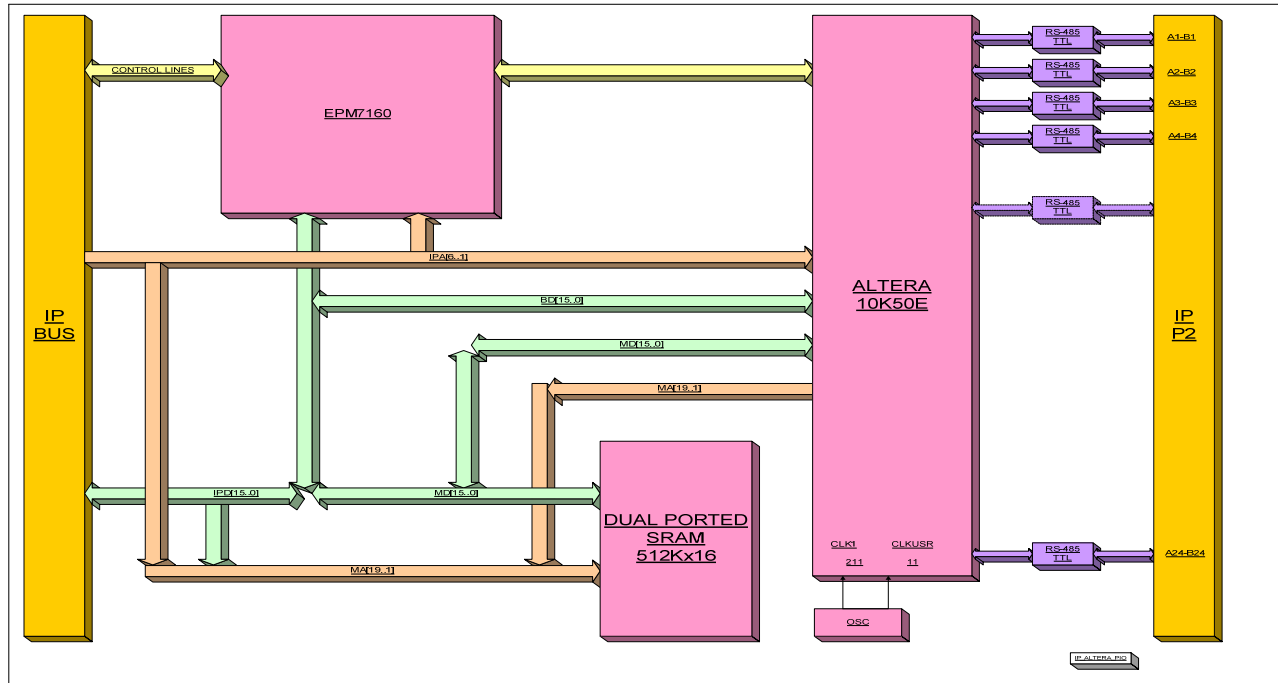
- 8/32 Mhz clock
- 16 bit address
- 16 bit data
- Interrupts
- DMA

Operating: Environmental

- Operating temperature
 - Commercial: 0 to +55 °C
 - Optional: -25°C to +80°C
- Non-operating: -40°C to 85 °C
- Airflow requirement: .5 CFM
- Humidity: 5 to 90% (non-cond.)
- Altitude: 0 to 10'000 ft

Mechanical: Environmental

- Size: Vita 4 Type 1 IP 1.8" x 3.9"
- Power: 1 watt
- Vibration: 0.5G RMS 20-2000 Hz rand
- Shock: 20 G, 11 ms, ½ sine
- Weight: tbd
- MTBF: >250000 hours



Functional Block Diagram

Ordering Information

Part Number : IP-Altera-10K50E-LVDS
 IP-Altera-10K100E-LVDS
 IP-Altera-10K130E-LVDS

LVDS ALTERA 10K50E Industry Pack module
 LVDS ALTERA 10K100E Industry Pack module
 LVDS ALTERA 10K130E Industry Pack module

Optional Accessories

Part Number : TB-50-HDR
 Part Number : CBL-50-HDR

50 pin terminal block and 1meter flat ribbon cable
 50 pin,1meter flat ribbon cable, IDC header connector

Alphi Technology Corporation
 6202 South Maple Ave, Suite 120
 Tempe, Arizona 85283, USA
 Tel: (480) 838 2428
 Fax: (480) 838 4477

For ordering information: sales@alphitech.com Please visit our web site at www.alphitech.com