

FPGA/CPLD DIL MODULE

FPGA GOP DIL Module

Introduction

The GOP_XC3S200 is a mini-module composed of a FPGA device and a configuration memory with a PAL/GAL compatible 24 pin DIL footprint.

Features

- Xilinx Spartan-3 FPGA with platform flash
- SRAM Memory and SPI Flash
- Onboard clock oscillator for audio or RS232 applications
- Solder jumpers for additional ground connections
- Voltage translators for 5V I/O tolerance
- Supply voltage 3,5-5,5V, core voltage switching regulator

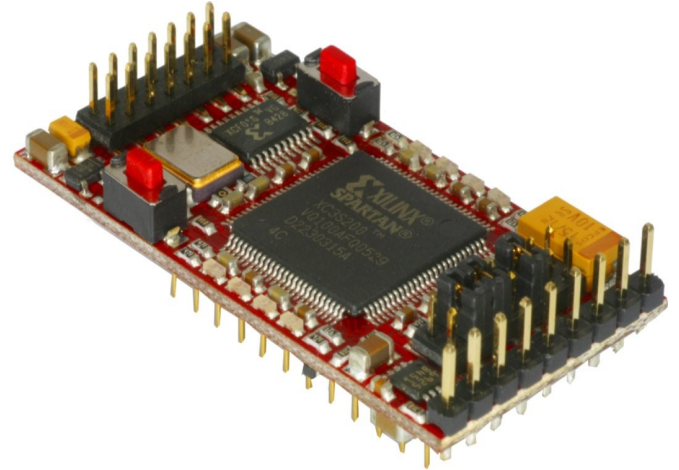


Figure 2: Spartan-3 GOP DIL-Module

Overview

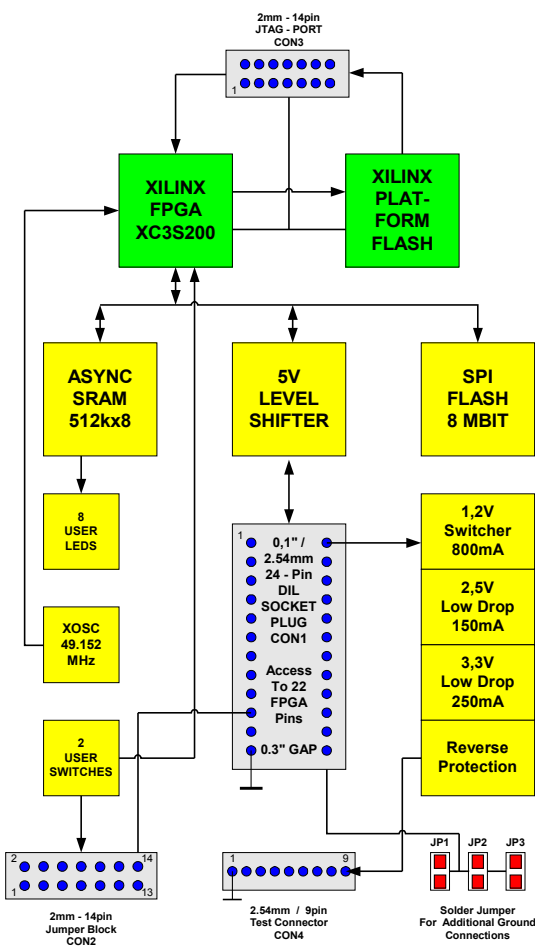


Figure 1: Spartan-3 GOP DIL Overview

Applications

- Upgrade from PAL/GAL devices
- Fast evaluation of Xilinx Spartan-3 FPGAs
- Serial data processing like Networking, USB, Audio, SPI, etc..
- Robotics
- Rapid Prototyping
- Battery operated equipment
- Hardware Platform for VHDL/VERILOG logic design courses
- High logic density applications at tight space constraints

Specifications

Product	GOP_XC3S200
Xilinx FPGA	XC3S200-4VQ100 Spartan 3
Platform Flash	XCF01S, 1 Mbit
SPI Flash	8 Mbit
Memory	4 Mbit SRAM, 512k x 8, 55ns
Clock	49.152 MHz
Signals	2 status LEDs, 8 low user LEDs
Buttons	2 user tact switches
Power Supply	3,5V to 5.5V (on Pin24)
Dimensions	47mm x 23,5mm
Weight	12g

FPGA/CPLD DIL MODULE

CPLD GOP DIL Series

Introduction

The GOP module series are mini-modules composed of a CPLD device with a PAL/GAL compatible 24 pin DIL footprint.

Overview

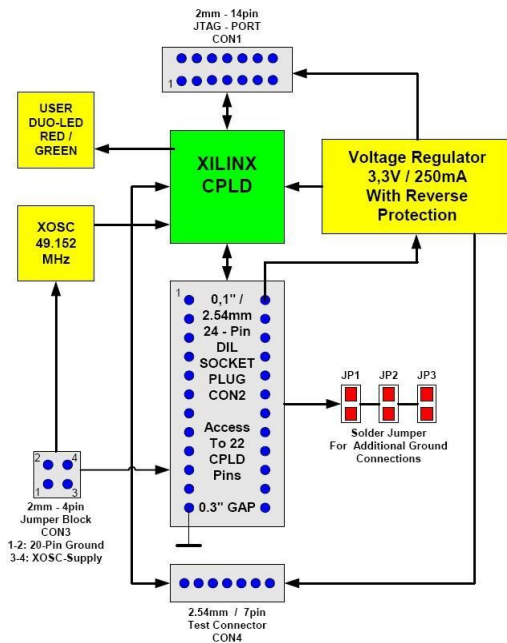


Figure 3: GOP_CPLD board overview

Specifications

Product	GOP_XC9572XL	GOP_XCR3064XL	GOP_XC2C64
Xilinx CPLD	XC9572XL-10VQ44C	XCR3064XL-10VQ44C	XC2C64-7VQ44C
Clock	49.152 MHz		
Signal	1 user dual led red/green		
Power Supply	3.5V to 5.5V (on Pin24)		2.7V to 3.6V
Dimensions	40.5mm x 20mm		
Weight	7g		



Figure 4: CPLD GOP DIL-module

Features

- Onboard clock oscillator for audio or RS232 applications
- Solder jumpers for additional ground connections
- Programmable ground I/O pins decrease ground bounce problems
- Inputs are 5V tolerant (except for XC2C64)

Applications

- Upgrade from PAL/GAL devices
- Fast evaluation of Xilinx CPLD's
- Rapid Prototyping
- Battery operated equipment
- Hardware Platform for VHDL/VERILOG logic design courses
- Battery operated equipment



Trenz Electronic GmbH
 Borriesstr. 61 | 32257 Bünde|Germany
 CEO: Thorsten Trenz
 Local Court:
 Amtsgericht Bad Oeynhausen | HRB7185
 fon+49 (0) 5223 / 41652
 fax+49 (0) 5223 / 48945
 e-mail info@trenz-electronic.de
<http://www.trenz-electronic.de>

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 Document: PB-GOP, Rev. 1.05 as of 2008-01-02