

Control Interface Board

PRODUCT DESCRIPTION

Control Interface Board is a conduction cooled board which generates control signals required for other subsystems. The board is designed in a custom formfactor. The board uses FPGA to interface multiple signal outputs/inputs to/from the external world. The board has been proven in harsh test environments.

The board finds application in generation of control signals for Electronic Warfare application.

KEY FEATURES

- Micro-D connectors to interface the various control signals RS422, RS485
- Gigabit Ethernet interface
- JTAG for programming
- Multiple inputs and outputs generated
 - LVTTTL
 - TTL
 - Differential IOs
 - TTL drivers

SPECIFICATIONS

FPGAs

- Xilinx Virtex-6 LX130T FPGA

Interfaces

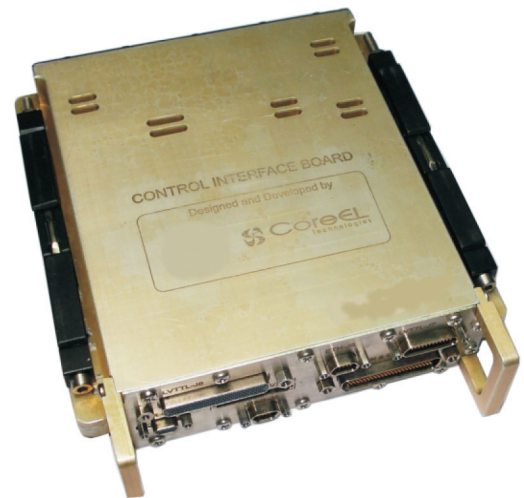
- Gigabit Ethernet interface
- Micro-D connectors to interface the various control signals
- JTAG interface for FPGA programming
- RS485 Transceivers, RS422 drivers and receivers

Software / IP

- Software & RTL for validation of board
- XIL kernel Operating System on Virtex 6 FPGA

Additional Information

- 32MB Parallel Flash, 64Mb Platform Flash
- 32MB SDRAM
- 8Kb EEPROM



MECHANICAL

- Conduction-cooled enclosure with wedge-locks
- Custom form factor

POWER INPUT

- The unit consumes 22W
- Input voltage is +5V & -5V

ENVIRONMENTAL

- Qualification : Qualified stringent qualification test specifications including random vibration, mechanical shock, acceleration, high temperature (storage + operation), humidity, salt fog, transit drop and bench handling
EMI/EMC: MIL-STD-461E
- Temperature range : -40°C and +85°C (Storage)
-40°C and +71°C (Operational)

PART NUMBER(S)

CH1040	Control Interface Board
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