FMC Loopback Adapter

DFMC-TESTADP

HIGHLIGHTS

Loopback of all LVDS and MGT signals

5 RGB LEDs on front panel for power good indication

10-280 MHz Oscillator

MCU for stand-alone operation

Debug output via USB Interface



FEATURES

FMC form factor

High pin count interface (HPC)

FMC clock generator

FMC HA, HB and LA differential pairs loopbacks

FMC DP differential pairs loopbacks

8-channel ADC for checking supply voltages

All signals can be checked (including JTAG, Power Good...)

The DFMC-TESTADP is an FPGA Mezzanine Card (FMC) for testing FMC Carriers. It is a tool for carrier developers for testing the full characteristics and connectivity of their FMC carrier interface. The TESTADP features loopbacks on all FMC differential pairs on the HPC connectors. In addition, it provides an on-board, user-programmable low-jitter clock generator supporting reference clocks which are required for PCIe, SATA, SRIO, Fiber Channel or Gigabit Ethernet protocols. It checks also the supply voltage of the FMC carrier connections.

Applications:

- FMC carrier board testing during development or post-production
- FMC carrier board electrical validation





FMC Loopback Adapter DFMC-TESTADP

TECHNICAL SPECIFICATIONS

CHITECTUR	E		
Physical		Width	84 mmm
Standards		FMC Standdard (VITA 57.1)	FPGA Mezzanine Card (FMC)
		module management	IPMI Version 2.0
Compatibility		Compatible products	any standard-compliant FMC carrier
ONFIGURATION	NC		
Electrical	·	VAUX	3.3 V
properties		VADJ	1.8 V, 2.5 V, 3.3 V
DNNECTIVITY	(
Inputs/Outputs	Differiential pairs	НА	24 pairs
		НВ	22 pairs
		LA	34 pairs
	Multi-Gigabit Transceivers	DP	10 pairs
	Clock (LVDS)	Chip type Si570	10 - 280 MHz
	Other signals	JTAG	via expander
		Power Good (PG)	PG_M2C, PG_C2M
	Voltages	ADC	3.3 V AUX, 3.3 V, 12 V, VADJ

FUNCTIONAL BLOCK DIAGRAM



