

MAXGTXREFDES

Virtex-6 FPGA GTX Transceiver Power Module

Simple, Compact, and Reliable Power Module for Evaluating Virtex-6 GTX Transceiver

Overview

Technical Documents

Ordering Info

User Comments (0)

All

Status

Active: In Production.

Description

MAXGTXREFDES is a power-supply module for the [Xilinx® Virtex®-6 FPGA ML623 Characterization Kit](#). The module uses 25A [MAX8686](#) power regulators with internal MOSFETs to supply all the rails of the 6.6Gbps GTX transceivers on the Virtex-6 XC6VLX240T-2FFG1156C FPGA. The power-supply module has been tested in hardware and shown to have the lowest noise when compared to competitor power-supply modules. Inefficient LDO power supplies can be replaced with this reference design.

The MAXGTXREFDES board complies with Xilinx power-supply module specifications and can be plugged directly into the ML623 board to power it. Refer to MAX8686 product pages for more information on the features and simulation models.

Key Features

- Simple Design to Power High-Speed Transceivers at Lowest Noise
- Compact Solution
- Reliable Operation
 - 1% Regulation Accuracy Over PVT
 - Single/Multiphase Operation
 - Remote Sense
 - Low Noise

Technical Documents

Product Guide 5385 [Analog Solutions for Xilinx FPGAs](#)

Product Guides

[Analog Solutions for Xilinx FPGAs \(PDF\)](#)

Reliability Reports

Request Reliability Report for: MAXGTXREFDES

Software/Models

none

Ordering Information

Filters: Part Number: Package: Any · Temperature: Any · ☐ Tape and Reel ☐ Sample

Part Number	Free Sample	Buy	Status 	Package: TYPE PINS FOOTPRINT DRAWING CODE/VAR *	Temp
MAXGTXREFDES#		Buy	Active	KIT; Land Pattern: Not Available	-40°C to +85°C