

MAXGTXREFDES

Virtex-6 FPGA GTX Transceiver Power Module

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

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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:

Software/Models

none

Ordering Information

Filters: Part Number: Package: Temperature: Tape and Reel Sample

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