

MAXP-23012

12.5 Gbps Crosspoint Switch Family

The MAXP-23016/MAXP-23012/MAXP-23008 family of devices operate at data rates from 100 Mbps to 12.5 Gbps. The three devices provide superior signal integrity management capabilities through the switch core and at the IO. Each device receiver is equipped with an analog equalizer that is programmable and designed to equalize up to 24 dB of insertion loss at 5.16 GHz for 10GbE applications and up to 20 dB of insertion loss at up to 6.25 GHz for 12.5Gb/s applications. The MAXP-23016/MAXP-23012/MAXP-23008 switch core is equipped with a sophisticated servo that automatically manages the DC offset in each channel in order to minimize jitter caused by duty cycle distortion. The output stages of the devices are equipped with individually programmable drivers that operate with up to 10.5 dB of de-emphasis as well as a wide range of output voltage swing levels. The MAXP-23016/MAXP-23012/MAXP-23008 can be controlled with 2-wire (I2C compatible) or 4-wire (SPI) interfaces for maximum flexibility. It is also possible for the device to automatically load a configuration from an external EEPROM.

DATA SHEET

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Product Specifications

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Product Specifications

Part Number	MAXP-23012
Description	12.5 Gbps Crosspoint Switch Family
Max Data Rate(Gbps)	12.500
Number of Channels	12
Embedded CDR	No
Power Consumption (W)	3.6
Package Size	15x15mm

Features

- 12x12 Non-Blocking Crosspoint Switch
- Integrated Pattern Generator and Checker
- Support any data rates From 100 Mbps to 12.5 Gbps
- Individual lane LOS (Loss Of Signal) detection and squelch
- Enables channels up to 40" at 12.5 Gbps
- Support Out-Of-Band (OOB) signaling
- Global or Individual Programmable Input Equalization to compensate up to 24 dB of loss at 5.16 GHz and 20 dB of loss at 6.25 GHz
- Global or Individual Programmable Output De-Emphasis up to 10.5 dB

Technical Resources

Data Sheet

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MAXP-23012A

MAXP-23012A, 12x12 Crosspoint

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MAXP-23012B

Crosspoint, MAXP-23012(12x12), 12.5Gbps

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