

# **New Zealand Core Switch PAM4**



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PAM4 has the advantage of doubling the data rate with respect to the same electrical characteristics (UI, Nyquist frequency, symbol rate) of an NRZ/PAM2 signal, as shown in Fig.1-1.



Understand PAM4 signaling basics and how it differs from NRZ. Expert insights on testing challenges, eye diagrams, and validation for 400G/800G Ethernet.



In copper, PAM4 uses four voltage levels to represent two-bits of data per symbol. By encoding two or more bits per symbol, PAM increases the data rate without increasing the required channel bandwidth.



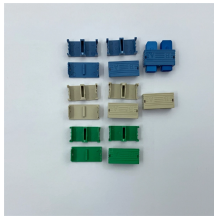
This Pulse-Amplitude Modulation 4-Level (PAM4) application note explains PAM4 theory and operation while introducing the Intel® Stratix® 10 TX device capability and the realization of 57.8 Gbps data ...



This document examines key technologies used in constructing LinkX cables and transceivers for 100G-PAM4, 50G-PAM4, and 25G-NRZ -modulation based interconnects used to ...



A move from NRZ to PAM4 with PCIe 6.0 was inevitable. PAM4 effectively doubles the data rate without demanding extra link bandwidth at the ...



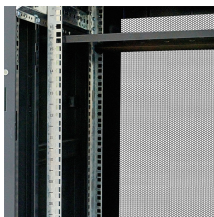
PAM4 modulation scheme becomes dominant in OIF CEI-112 Gbps interface IA One SerDes core is not able to efficiently cover multiple applications from XSR to LR For short reach applications, simpler ...



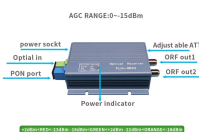
This application note explains PAM4 theory and its operation. It describes NRZ and PAM4 fundamentals, standards using PAM4 coding schemes, and CEI-56G Interconnect reaches and ...



Designed for 800G switch applications, the LMK5B33216 is a high-performance network synchronizer that meets the stringent Ethernet-based networking requirements for jitter, rise or fall time, hitless ...



A move from NRZ to PAM4 with PCIe 6.0 was inevitable. PAM4 effectively doubles the data rate without demanding extra link bandwidth at the expense of reduced signal to noise ratio ...



PAM4 is the dial with four positions, each one conveying a more specific piece of information. At the same switching speed (baud rate), PAM4 moves twice as much data down the wire.

## Contact Us

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