

TC2201

PCIe® Gen4 NVMe™ DRAMless SSD Controller

Boot SSD
Gaming
OEM Client

Overview

The TC2201 is an industry leading PCIe Gen4 NVMe DRAMless SSD controller designed to deliver outstanding performance, reliability, and power efficiency for a wide range of small form factor computing applications.

Architecture

The TC2201 series supports DRAMless architecture with Host Memory Buffer (HMB) that enables low power and cost effective BOM designs.

FlexLDPC

Utilizing FlexLDPC technology, an in-house developed advanced LDPC error correction engine, provides best-in-class latency, quality of service (QoS), and endurance support for the latest TLC and QLC NAND Flash technologies.



SSD Form Factors

- M.2 2280
- M.2 2230
- U.2

Applications

- PC
- Laptops
- Gaming Consoles

Specifications	TC2201
Interface	PCIe Gen4, NVMe 1.4
Flash	4CH, up to 2400MT/s
DRAM	DRAMLess
Performance	Sequential, 7.3GB/s Random, 1M IOPS
Power	<1.5mW Controller PS4
Data Integrity	End to end data protection SRAM SECDED protection 4KB LDPC ECC Plane-based/Die-base RAID
Package	7.5mm x 12mm