# TC2200 / TC2201

PCIe<sup>®</sup> Gen4 NVMe<sup>™</sup> DRAMless SSD Controller

Boot SSD Gaming OEM Client

Tenafe

#### Overview

The TC2200/TC2201 are industry leading PCIe Gen4 NVMe DRAMless SSD controllers designed to deliver outstanding performance, reliability, and power efficiency for a wide range of small form factor computing applications.

### Architecture

The TC2200/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

Spec	TC2200	TC2201
Status	Mass Production	Sampling Q4'2022
Interface	PCIe Gen4, NVMe 1.4	PCIe Gen4, NVMe 1.4
Flash	4CH, up to 1600 MT/s	4CH, up to 2400MT/s
DRAM	DRAMLess	DRAMLess
Performance	Sequential, 5GB/s	Sequential, 7.4GB/s
	Random, 550K IOPS	Random, 1M IOPS
Power	<1.5mW Controller PS4	<1.5mW Controller PS4
Data Integrity	End to end data protection	End to end data protection
	SRAM SECDED protection	SRAM SECDED protection
	4KB LDPC ECC	4KB LDPC ECC
	Plane-based/Die-base RAID	Plane-based/Die-base RAID
Package	12mm x 12mm	7.5mm x 12mm



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