

# TC2200

## PCIe® Gen4 NVMe™ DRAMless SSD Controller

Boot SSD  
Gaming  
OEM Client

### Overview

The TC2200 is an industry leading PCIe Gen 4 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 TC2200 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	TC2200
Status	Mass Production
Interface	PCIe Gen4, NVMe 1.4
Flash	4CH, up to 1600 MT/s
DRAM	DRAMLess
Performance	Sequential, 4.8GB/s Random, 550K 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	12mm x 12mm