

SATA3.2 SSD Controller – YS9085N/YS9082HT/YS9082HP/YS9082HC

General Description

YS9085N/YS9082HT/YS9082HP/YS9082HC is a high-reliability, high-performance SSD controller that enables customers to implement cost-effective consumer and industrial SSD solutions, including 2.5 inch SSDs, 1.8 inch SSDs, Slim SATA, mSATA, M.2, and BGA SSDs for desktop, notebook, and other embedded applications.

Key Features

- Support SATA3.2 protocol
- Support lx/ly/lz nm 2D NAND Flash
- Support 2D SLC/MLC/TLC NAND Flash
- Support 3D TLC/QLC NAND Flash
- Support ONFI 3.X, Toggle 2.0
- Support 2K LDPC
- Support 1.2V (YS9085N/YS9082HT/YS9082HP)
- Support 1.8V (YS9082HC)
- 2CH, 4CE/CH (YS9085N)
- 4CH, 4CE/CH (YS9082HT/YS9082HP/YS9082HC)
- Sequential Read: 550 MB/s (YS9085N/YS9082HT/YS9082HP)
- Sequential Write: 510 MB/s (YS9085N/YS9082HT/YS9082HP)
- Sequential Read: 550 MB/s (YS9082HC)
- Sequential Write: 450 MB/s (YS9082HC)
- Random Read: 37,500 IOPS
- Random Write: 75,000 IOPS
- Consumer grade operating temperature: 0°C ~ 70°C
- Industrial grade working temperature: -40°C ~ 85°C