Realtek PCIe SSD Controller Roadmap

PCIe With DRAM

PCIe DRAM-Less

RTS5766DL

- PCIe Gen3x4, NVMe 1.4
- DRAM-Less
- 4-ch Flash Control, 2K LDPC
- Supports 1200MT/s NAND Flash
- S.R 3200MB/s; S.W 2200MB/s
- 11x11 BGA

RTS5772DL

- PCIe Gen4x4, NVMe 1.4
- DRAM-Less
- 8-ch Flash Control, 2K LDPC
- Supports 1600MT/s NAND Flash
- S.R 6000MB/s; S.W 6000MB/s (w/ 1066MT/s NAND, VDD=0.9V)
- S.R 5000MB/s; S.W 5000MB/s (w/ 800MT/s NAND, VDD=0.8V)
- 13x13 BGA

RTS5776DL

- PCIe Gen4x4, NVMe 2.0
- DRAM-Less
- 4-ch Flash Control ,4K LDPC
- Supports 3600MT/s NAND Flash
- S.R 7400MB/s; S.W 7400MB/s
- R.R 1200K ; R.W: 1200K IOPS
- ES: Q4'24

RTS5781DL

- PCIe Gen5x4, NVMe 2.0
- DRAM-Less
- 4-ch Flash Control , 4K LDPC
- Supports 3600MT/s NAND Flash
- S.R 10000MB/s; S.W 10000MB/s
- R.R 1400K; R.W 1400K IOPS
- ES: Q1'25

RTS5782

- PCIe Gen5x4
- DRAM DDR4 / LPDDR3/4/4x
- 8-ch Flash Control, 4K LDPC
- Supports 3600MT/s NAND
- S.R 14000MB/s; S.W 12000MB/s
- R.R 2500K; R.W 2500K IOPS

Gen3 → Gen4 → Gen5

Production

Developing

Planning

Activate Windows
Go to Settings to activate Windows.

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