

Promising Storage Technologies



INNOVATION BRIDGE

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DNA Storage

DNA has the potential to store up to about 1 exabyte per cubic millimeter.



- ✓ Very High Dense
- ✓ Energy Efficiency
- ✗ Difficult to read and write
- ✗ Susceptible to damage

Spintronic Storage

Spintronic storage uses the spin of electrons to store data.



- ✓ Very High storage density
- ✓ Faster data access
- ✓ Lower power consumption
- ✗ Expensive to produce
- ✗ Susceptible to damage

5D Optical Storage

The lifetime of 5D memory is 10^{20} years at room temperature.



- ✓ High density storage
- ✓ Durable
- ✗ Expensive



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