

# Blockchain Facts: Block Time Comparison

Below is a comparison of block time for various competitive blockchain networks, ranked from fastest to slowest as of February 25, 2025:

Blockchain Network	Block Time (Second)
1. <b>AtlantisChain</b> ( <i>Layer 0 Public Infrastructure</i> )	0.043
2. <b>Solana</b>	0.408
3. <b>ICP</b>	0.480
4. <b>Sei</b>	0.480
5. <b>opBNB</b> ( <i>BNB Chain Layer 2</i> )	1.000
6. <b>NEAR Protocol</b>	1.110
7. <b>Base</b> ( <i>Ethereum Layer 2</i> )	2.000
8. <b>Optimism</b> ( <i>Ethereum Layer 2</i> )	2.000
9. <b>Polygon</b> ( <i>Ethereum Layer 2</i> )	2.300
10. <b>Tron</b>	3.000
11. <b>BNB Chain</b>	3.000
12. <b>Taraxa</b>	3.720
13. <b>Pi Network</b>	5.000
14. <b>TON</b>	5.000
15. <b>Stellar</b>	5.780
16. <b>Arbitrum</b> ( <i>Ethereum Layer 2</i> )	0.250 ~ 7.500
17. <b>Ethereum</b>	12.00
18. <b>Bitcoin</b>	600.0 (=10 minutes)

## Key Insights:

- 1) **AtlantisChain** (0.043s) is the fastest and most advanced blockchain in terms of block time. With a maximum processing capacity of 1,550,000 transactions per second (TPS), it sets a new benchmark for scalability and efficiency, making it ideal for real commercial applications and public services.
- 2) **Solana** (0.408s) and **ICP** (0.480s) follow closely behind, maintaining high speeds optimized for fast transactions.
- 3) **Ethereum Layer 2** solutions (Optimism, Arbitrum, Base, and Polygon) significantly reduce block times compared to Ethereum's 12-second mainnet block time, improving scalability and cost-efficiency.
- 4) **Bitcoin** remains the slowest blockchain, with a 10-minute block time, prioritizing security and decentralization over speed.