

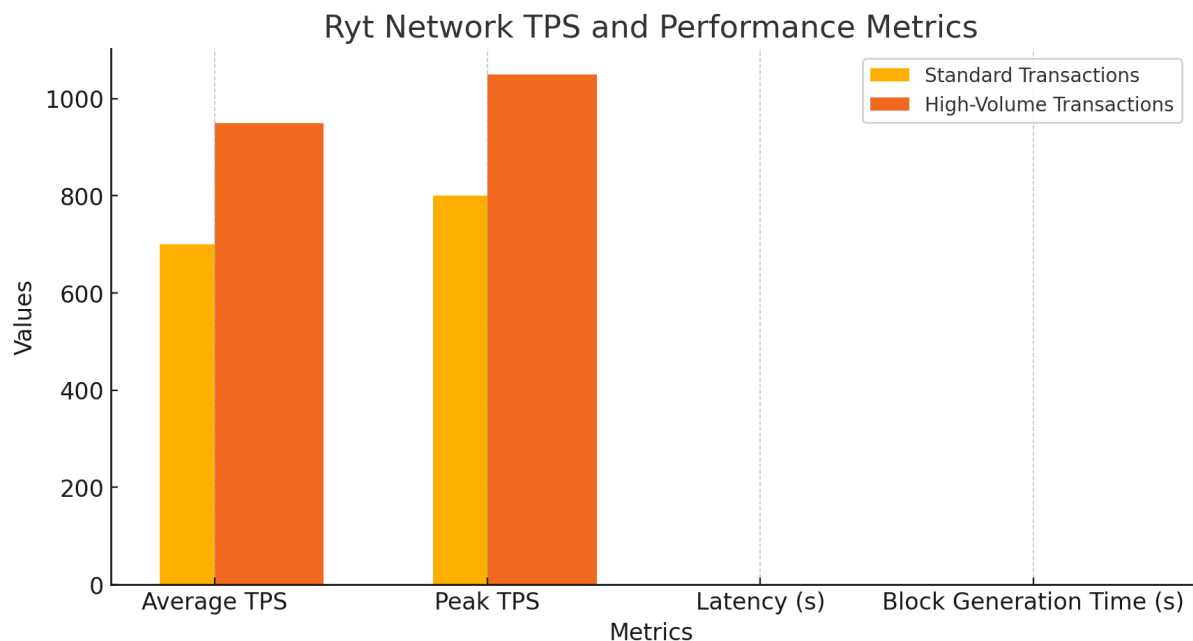
The TPS benchmark

Software Configuration:

- **Ryt Network Version: v1.0.0(testnet)**
- **Operating System: Ubuntu 20.04 LTS**
- **Node Count: 5 nodes distributed across multiple geographic regions to simulate a real-world decentralized network.**

Testing Scenarios:

- 1. Standard Transactions: Basic transfers of native cryptocurrency without additional smart contract logic.**
- 2. High-Volume Transactions: Stress testing with a large number of transactions submitted in a short period.**



Results

- 1. Standard Transactions:**
 - **Average TPS: 700**
 - **Peak TPS: 800**
 - **Latency: < 0.5 second**
 - **Block generation time:<0.4**
- 2. High-Volume Transactions:**
 - **Stress Test Peak TPS: 950**
 - **Sustained High Load TPS: 1050**

- **System Stability: Maintained with minor latency increases.**

Comparison table

Rank	Blockchain	Highest TPS
1	Solana	1,053.65
2	Ryt	1,050.00
3	Sui	854.05
4	BSC	378.27
5	Polygon	190.39
6	TON	175.46
7	Tron	159.61
8	Near	117.84
9	Avalanche	89.16
10	Cronos	72.19
11	Gnosis	65.57
12	Fantom	59.17
13	Arbitrum	58.97
14	Linea	55.7
15	Aptos	49.48
16	Base	37.49
17	Mantle	25.47
18	Ethereum	22.7
19	Starknet	12.3
20	Optimism	11.79
21	Bitcoin	10.73