OXSCANS

TensorNode

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OVERVIEW

This audit has been perpared for **'TensorNode'** to review the main aspects of the project to help investors make an informative decision during their research process

You will find a summarized review of the following **key points**:

- Contract's source code

- Owner wallets

- Tokenomics

- Team transparency and goals

- Website's age, code, security and UX

- Whitepaper and roadmap

- Social media and online presence

Table of Content

General Information

TensorNode

Name	TensorNode

Info

General Information

Tokenomics

Contract Address   0x81841bc0cf65834ce64ce987e8b094781222b595

General Analysis

Audit Review Process

1 Testing the smart contracts against both common and uncommon vulnerabilities

2 Assessing the codebase to ensure compliance with current best practices and industry standards

3 Ensuring contract logic meets the specifications and intentions of the client

4 Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders

5 Thorough line-byline AI review of the entire codebase by industry

Token Transfer Stats

Transactions (Latest Mine Block)

1

Token holders

620

Compiler

v0.8.23

Smart Contract Stats

Functions

19

Events

4

Constructor

1

Detail Analysis

Threat Level

🔴 High	Issues on this level are critical to the smart contract's performace/functionality and should be fixed before moving to a live enviroment
🟠 Medium	Issues on this level are critical to the smart contract's performace/functionality and should be fixed before moving to a live enviroment
🟡 Low	Issues on this level are minor details and warning that can remain unfixed
🔵 Informational	Informational level is to offer suggestions for improvement of efficacy or secruity for fratures with risk free factor

Threat Level

🔴 High	**0** threats found
🟠 Medium	**5** threats found
🟡 Low	**2** threats found
🔵 Informational	**2** threats found

Detail Analysis

Vulnerability Check   ● 14 Passed   ● 7 Fail

- ● Arbitrary Jump/Storage Write
- ● Centralization of Control
- ● Compiler Issues
- ● Delegate Call to Untrusted Contract
- ● Dependence on Predictable Variables
- ● Ether/Token Theft
- ● Flash Loans
- ● Front Running
- ● Improper Events
- ● Improper Authorization Scheme
- ● Integer Over/Underflow
- ● Logical Issues
- ● Oracle Issues
- ● Outdated Compiler Version
- ● Race Conditions
- ● Reentrancy
- ● Signature Issues
- ● Sybil Attack
- ● Unbounded Loops
- ● Unused Code
- ● Overall Contract Safety

Detail Analysis

Detail Analysis 🟢 14 Passed 🔴 7 Fail

CATEGORY	STATUS	NOTES
Arbitrary Jump/Storage Write	🟢	No arbitrary jumps or storage writes detected, standard ERC20 and Ownable patterns used.
Centralization of Control	🟢	No risk of centralization as the contract owner is a dead address.
Compiler Issues	🟢	Compiled with a recent Solidity version (v0.8.23) without known compiler issues.
Delegate Call to Untrusted Contract	🟢	No delegate calls to external contracts present in the contract.
Dependence on Predictable Variables	🟢	No critical dependence on variables like block.timestamp or block.number.

Detail Analysis

Detail Analysis 🟢 14 Passed 🔴 7 Fail

CATEGORY	STATUS	NOTES
Ether/Token Theft	🟢	Standard ERC20 transfer mechanisms, no functions that could lead to Ether or token theft.
Flash Loans	🟢	Flash loan attack vectors not applicable, no external calls or token price dependencies.
Front Running	🔴	Some functions might be susceptible to front-running due to public visibility and transfer mechanics, although no direct financial risk observed.
Improper Events	🟢	All external state-changing functions emit appropriate events.
Improper Authorization Scheme	🔴	Centralized authorization scheme with 'onlyOwner', potential risk if the owner is compromised.
Integer Over/Underflow	🟢	Solidity 0.8.23 inherently protects against integer overflow and underflow.

Detail Analysis

Detail Analysis 🟢 14 Passed 🔴 7 Fail

| CATEGORY	STATUS	NOTES
Logical Issues	🔴	Logic appears sound, but some custom functions like 'openTrading' and 'manualSwap' need careful review to ensure they behave as intended.
Oracle Issues	🟢	No external oracles or dependencies on off-chain data.
Outdated Compiler Version	🟢	Compiled with a recent and stable version of Solidity.
Race Conditions	🔴	Potential for race conditions in functions like 'transfer' and 'approve', common in ERC20 tokens.
Reentrancy	🟢	No external calls that could lead to reentrancy attacks.
Signature Issues	🟢	No signature-based functionalities in the contract.

Detail Analysis

Detail Analysis ● 14 Passed ● 7 Fail

CATEGORY	STATUS	NOTES
Sybil Attack	●	While not directly vulnerable, ERC20 tokens can potentially be affected by sybil attacks in broader ecosystem.
Unbounded Loops	●	No unbounded loops that could lead to gas limit issues.
Unused Code	●	Some code paths are not used in current contract logic but do not pose a risk.
Overall Contract Safety	●	While the contract follows common ERC20 and Ownable patterns, the presence of a dead owner address reduces centralization risk.

Market Analysis

Score

Total Audit Score

9/10

Security Score

9/10
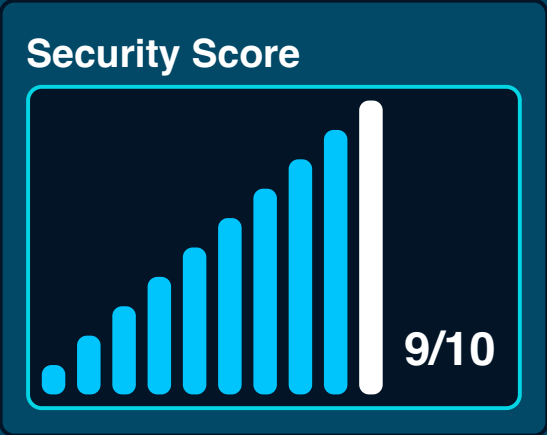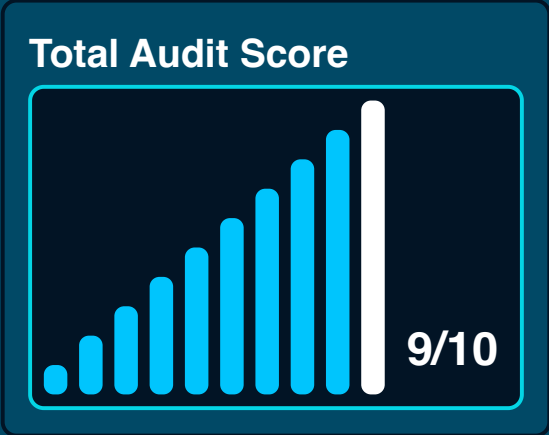
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