



OXSCANS

TensorNode

AI Generated at 01:20 PM, UTC

March 12, 2024

OVERVIEW

This audit has been prepared 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

1 General Info

2 General Analysis

3 Vulnerability check

4 Threat Analysis

5 Risks & Recommendations

6 Conclusions

7 Disclaimer

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



652

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 performance/functionality and should be fixed before moving to a live environment



Medium

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment



Low

Issues on this level are minor details and warnings that can remain unfixed



Informational

Informational level is to offer suggestions for improvement of efficacy or security for features with risk-free factors

Threat Level



High

0 threats found



Medium

4 threats found



Low

2 threats found



Informational

2 threats found

Detail Analysis

Vulnerability Check



15 Passed



6 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



15 Passed



6 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 owner is a dead address, eliminating concerns of unilateral control.
Compiler Issues		Compiled with a recent Solidity version (0.8.23) 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



15 Passed



6 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		No risk of improper authorization as the owner is a dead address, mitigating the risk of owner compromise.
Integer Over/Underflow		Solidity 0.8.23 inherently protects against integer overflow and underflow.

Detail Analysis

Detail Analysis



15 Passed



6 Fail

CATEGORY	STATUS	NOTES
Logical Issues		Logic appears sound, but custom functions like 'swapTokensForEth' 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



15 Passed

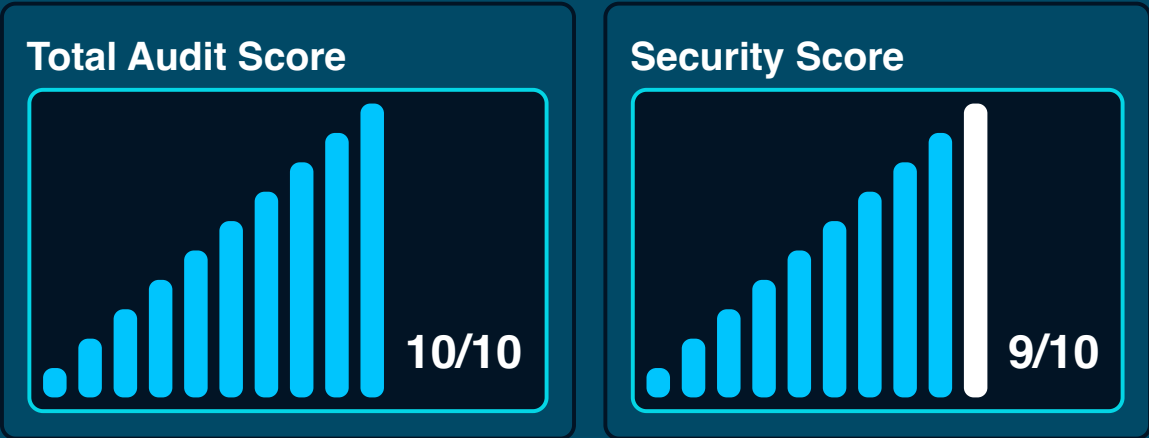


6 Fail

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 mitigates centralization risk, yet other logical issues and potential race conditions warrant caution.

Market Analysis

Score





Legal Disclaimer

0xscans operates as an automated system for smart contract due diligence, acknowledging the possibility of bugs or vulnerabilities impacting token values. We do not hold specific obligations regarding your trading outcomes or the utilization of audit content. Users release 0xscans from any liability associated with content obtained through the tool.



AI generated by 0xscans AI technology

Chat with us

Telegram

For more information. Visit below:

Twitter

Github