

# Security Assessment: **Meme Lordz TOKEN**

Meme  Lordz





October 21, 2024

- Audit Status: **Pass**
- Audit Edition: **Advance**
































# Risk Analysis

## Classifications of Manual Risk Results

Classification	Description
 Critical	Danger or Potential Problems.
 High	Be Careful or Fail test.
 Medium	Pass, Not-Detected or Safe Item.
 Low	Function Detected

## Manual Code Review Risk Results

Contract Privilege	Description
 Buy Tax	2%
 Sale Tax	2%
 Cannot Buy	Pass
 Cannot Sale	Pass
 Max Tax	2%
 Modify Tax	No
 Fee Check	Pass
 Is Honeypot?	Not Detected
 Trading Cooldown	Not Detected
 Can Pause Trade?	Pass
 Pause Transfer?	Not-Detected
 Max Tx?	Pass
 Is Anti Whale?	Not-Detected
 Is Anti Bot?	Not-Detected

Contract Privilege	Description
 Is Blacklist?	Not-Detected
 Blacklist Check	Pass
 is Whitelist?	Not-Detected
 Can Mint?	Pass
 Is Proxy?	Not Detected
 Can Take Ownership?	Not Detected
 Hidden Owner?	Not-Detected
 Owner	No
 Self Destruct?	Not Detected
 External Call?	Not-Detected
 Other?	Not Detected
 Holders	1,158
 Auditor Confidence	Medium
 KYC Present	No
 KYC URL	

The following quick summary it's added to the project overview; however, there are more details about the audit and its results. Please read every detail.

# Project Overview

## Token Summary

Parameter	Result
Address	0xf261FF53CfDb39651510F7319442610B412d9e7B
Name	Meme Lordz
Token Tracker	Meme Lordz (MEMEZ)
Decimals	9
Supply	200,000,000
Platform	BASE
compiler	v0.8.28+commit.7893614a
Contract Name	MemeLordz
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	<a href="https://basescan.org/address/0xf261FF53CfDb39651510F7319442610B412d9e7B#code">https://basescan.org/address/0xf261FF53CfDb39651510F7319442610B412d9e7B#code</a>
Payment Tx	Corporate

## Main Contract Assessed Contract Name

Name	Contract	Live
Meme Lordz	0xf261FF53CfDb39651510F7319442610B412d9e7B	Yes

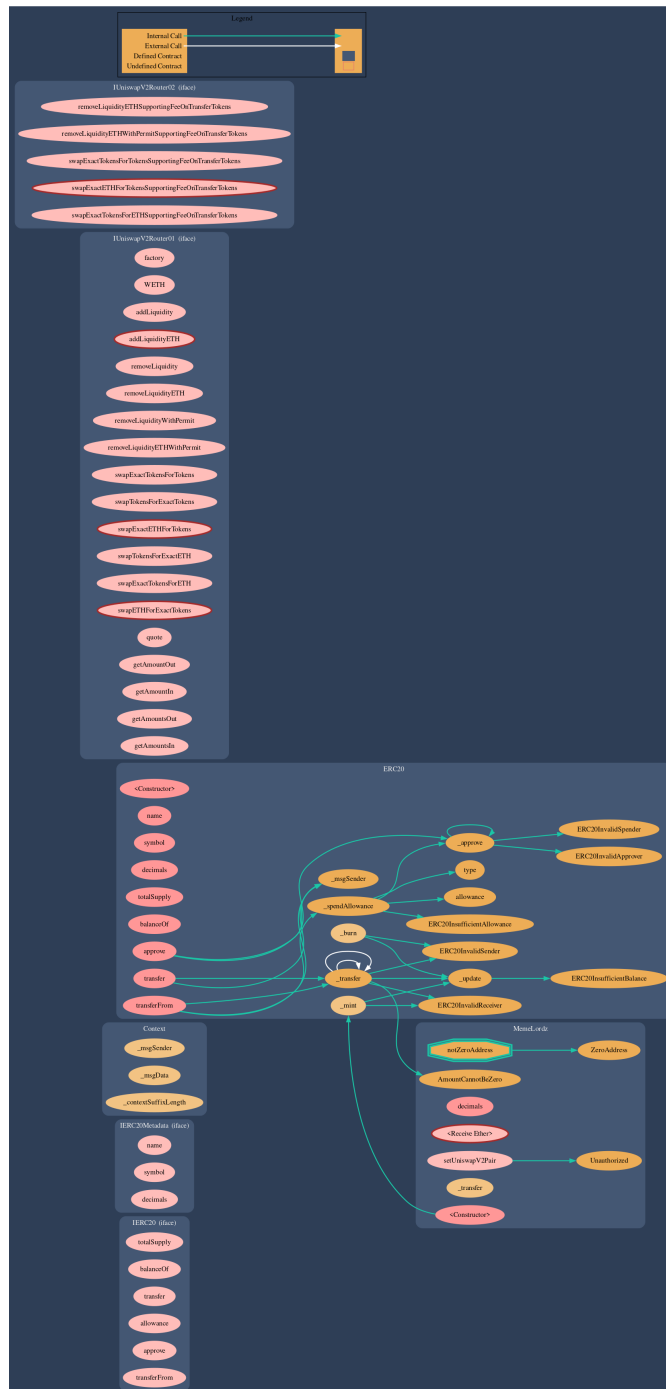
## TestNet Contract was Not Assessed

### Solidity Code Provided

SolidID	File Sha-1	FileName
MemeLordz	ab4d2b8e384bb7947f01a37671c68a90c94f76a6	MemeLordz.sol
MemeLordz		.sol
MemeLordz		.sol
MemeLordz		.sol
MemeLordz		.sol
MemeLordz		.sol

# Call Graph

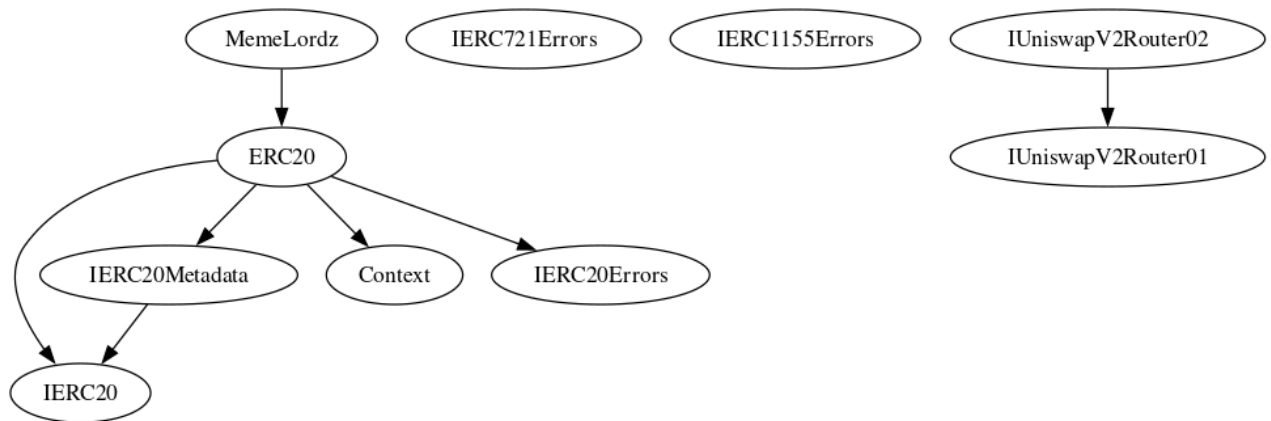
The contract for Meme Lordz has the following call graph structure.



# Inheritance






The contract for Meme Lordz has the following inheritance structure.

The Project has a Total Supply of 200,000,000








# Technical Findings Summary

## Classification of Risk

Severity	Description
 Critical	Risks are those that impact the safe functioning of a platform and must be addressed before launch. Users should not invest in any project with outstanding critical risks.
 High	Risks can include centralization issues and logical errors. Under specific circumstances, these major risks can lead to loss of funds and/or control of the project.
 Medium	Risks may not pose a direct risk to users' funds, but they can affect the overall functioning of a platform
 Low	Risks can be any of the above but on a smaller scale. They generally do not compromise the overall integrity of the Project, but they may be less efficient than other solutions.
 Informational	Errors are often recommended to improve the code's style or certain operations to fall within industry best practices. They usually do not affect the overall functioning of the code.

## Findings

Severity	Found	Pending	Resolved
 Critical	0	1	0
 High	0	0	0
 Medium	0	1	0
 Low	0	1	0
 Informational	0	0	0
Total	0	3	0



# Social Media Checks

Social Media	URL	Result
Twitter	<a href="https://x.com/memelordzrpg">https://x.com/memelordzrpg</a>	Pass
Other		N/A
Website	<a href="https://memelordz.io/">https://memelordz.io/</a>	Pass
Telegram	<a href="https://t.me/memelordzportal">https://t.me/memelordzportal</a>	Pass

We recommend to have 3 or more social media sources including a completed working websites.

**Social Media Information Notes:**

**Auditor Notes:** undefined

**Project Owner Notes:**



# Assessment Results

## Score Results

Review	Score
Overall Score	100/100
Auditor Score	90/100
Review by Section	Score
Manual Scan Score	25
Auto Scan Score	37
Advance Check Score	40

The Following Score System Has been Added to this page to help understand the value of the audit, the maximum score is 100, however to attain that value the project must pass and provide all the data needed for the assessment. Our Passing Score has been changed to 84 Points for a higher standard, if a project does not attain 85% is an automatic failure. Read our notes and final assessment below.

## Audit Passed



# Assessment Results

## Important Notes:

- Centralization and Control:|
- Tax Recipient: The taxRecipient has significant control over the contract, including setting Uniswap pairs. Ensure this address is secure and trustworthy.|
- Function Access: Only the taxRecipient can set Uniswap pairs. Consider implementing a more decentralized governance model.|
- Tax Mechanism:|
- Hardcoded Tax Rates: Buy and sell taxes are fixed at 2%. Ensure these rates are acceptable to all stakeholders.|
- Tax Calculation: The tax is calculated as  $(\text{amount} * \text{taxRate}) / 1e2$ . Ensure this calculation is accurate and fair.|
- Security Checks:|
- Zero Address: Proper checks are implemented to prevent zero address transfers.|
- Amount Checks: Ensure all transfers have a non-zero amount.|
- Reentrancy: No explicit reentrancy guards are present. While typical ERC20 functions are safe, consider adding guards if integrating with other contracts.|
- Minting:|

- Initial Mint: 200 million tokens are minted to the taxRecipient. Verify this aligns with the project's tokenomics.
- Gas Optimization: Review the contract for potential gas savings, especially in frequently called functions.

**Auditor Score =90**  
**Audit Passed**



# Appendix

## Finding Categories

### Centralization / Privilege

Centralization / Privilege findings refer to either feature logic or implementation of components that act against the nature of decentralization, such as explicit ownership or specialized access roles in combination with a mechanism to relocate funds.

### Gas Optimization

Gas Optimization findings do not affect the functionality of the code but generate different, more optimal EVM opcodes resulting in a reduction on the total gas cost of a transaction.

### Logical Issue

Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on how `block.timestamp` works.

### Control Flow

Control Flow findings concern the access control imposed on functions, such as owner-only functions being invoke-able by anyone under certain circumstances.

### Volatile Code

Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that may result in a vulnerability.

### Coding Style

Coding Style findings usually do not affect the generated byte-code but rather comment on how to make the codebase more legible and, as a result, easily maintainable.

### Inconsistency

Inconsistency findings refer to functions that should seemingly behave similarly yet contain different code, such as a constructor assignment imposing different requirements on the input variables than a setter function.

### Coding Best Practices

ERC 20 Coding Standards are a set of rules that each developer should follow to ensure the code meets a set of criteria and is readable by all the developers.

# Disclaimer

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