



# CFG NINJA AUDITS

Security Assessment

**UltraBlock Token**

October 3, 2023

Audit Status: Pass

Audit Edition: Advance














POWERED BY  
**BLADE POOL**

# Risk Analysis

















## Classifications of Manual Risk Results

Classification	Description
 Critical	Danger or Potential Problems.
 Major	Be Careful or Fail test.
 Minor	Pass, Not-Detected or Safe Item.
 Informational	Function Detected

## Manual Code Review Risk Results

Contract Priviledge	Description
 Buy Tax	0
 Sale Tax	0
 Cannot Buy	Pass
 Cannot Sale	Pass
 Max Tax	0
 Modify Tax	Not-Detected
 Fee Check	Pass
 Is Honeypot?	Not detected
 Trading Cooldown	Not Detected
 Can Pause Trade?	Pass
 Pause Transfer?	Not-Detected



Contract Priviledge	Description
 Max Tx?	Pass
 Is Anti Whale?	Not Detected
 Is Anti Bot?	Not Detected
 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
 Other?	Not detected
 Other?	Not detected
 Holders	1
 Auditor Confidence	High

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	0x5Ca4db825b4aF260720FfFae8A3Cb6bB352b9bE2
Name	UltraBlock
Token Tracker	UltraBlock (ULTRA)
Decimals	18
Supply	100,000,000
Platform	Binance Smart Chain
compiler	v0.8.18+commit.87f61d96
Contract Name	UltraBlock
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	<a href="https://bscscan.com/address/0x5ca4db825b4af260720fffae8a3cb6bb352b9be2#code">https://bscscan.com/address/0x5ca4db825b4af260720fffae8a3cb6bb352b9be2#code</a>
Payment Tx	0xef2fcdd28b6cbb42fd9074e29a6f3fea5e15df0d699cbe3311176325c01555fc



## Main Contract Assessed Contract Name

Name	Contract	Live
UltraBlock	0x5Ca4db825b4aF260720FfFae8A3Cb6bB352b9bE2	Yes

## TestNet Contract Assessed Contract Name

Name	Contract	Live
UltraBlock	0xC00169FFf51BD0A45FA092bA0e3c409085bD80DF	Yes

## Solidity Code Provided

SolID	File Sha-1	FileName
UltraBlock	58fcf5837b1f75a49ac386e1d304076d16a44812	UltraBlock.sol
UltraBlock		
UltraBlock		
UltraBlock		



# Call Graph

The contract for UltraBlock has the following call graph structure.



# Smart Contract Vulnerability Checks

The Smart Contract Weakness Classification Registry (SWC Registry) is an implementation of the weakness classification scheme proposed in EIP-1470. It is loosely aligned to the terminologies and structure used in the Common Weakness Enumeration (CWE) while overlaying a wide range of weakness variants that are specific to smart contracts.

ID	Severity	Name	File	location
SWC-100	Pass	Function Default Visibility	UltraBlock.sol	L: 0 C: 0
SWC-101	Pass	Integer Overflow and Underflow.	UltraBlock.sol	L: 0 C: 0
SWC-102	Pass	Outdated Compiler Version file.	UltraBlock.sol	L: 0 C: 0
SWC-103	Low	A floating pragma is set.	UltraBlock.sol	L: 7 C: 0, L: 34 C: 0, L: 112 C: 0, L: 197 C: 0, L: 227 C: 0
SWC-104	Pass	Unchecked Call Return Value.	UltraBlock.sol	L: 0 C: 0
SWC-105	Pass	Unprotected Ether Withdrawal.	UltraBlock.sol	L: 0 C: 0
SWC-106	Pass	Unprotected SELFDESTRUCT Instruction	UltraBlock.sol	L: 0 C: 0
SWC-107	Pass	Read of persistent state following external call.	UltraBlock.sol	L: 0 C: 0
SWC-108	Pass	State variable visibility is not set..	UltraBlock.sol	L: 0 C: 0





ID	Severity	Name	File	location
SWC-109	Pass	Uninitialized Storage Pointer.	UltraBlock.sol	L: 0 C: 0
SWC-110	Pass	Assert Violation.	UltraBlock.sol	L: 0 C: 0
SWC-111	Pass	Use of Deprecated Solidity Functions.	UltraBlock.sol	L: 0 C: 0
SWC-112	Pass	Delegate Call to Untrusted Callee.	UltraBlock.sol	L: 0 C: 0
SWC-113	Pass	Multiple calls are executed in the same transaction.	UltraBlock.sol	L: 0 C: 0
SWC-114	Pass	Transaction Order Dependence.	UltraBlock.sol	L: 0 C: 0
SWC-115	Pass	Authorization through tx.origin.	UltraBlock.sol	L: 0 C: 0
SWC-116	Pass	A control flow decision is made based on The block.timestamp environment variable.	UltraBlock.sol	L: 0 C: 0
SWC-117	Pass	Signature Malleability.	UltraBlock.sol	L: 0 C: 0
SWC-118	Pass	Incorrect Constructor Name.	UltraBlock.sol	L: 0 C: 0
SWC-119	Pass	Shadowing State Variables.	UltraBlock.sol	L: 0 C: 0
SWC-120	Pass	Potential use of block.number as source of randomness.	UltraBlock.sol	L: 0 C: 0
SWC-121	Pass	Missing Protection against Signature Replay Attacks.	UltraBlock.sol	L: 0 C: 0
SWC-122	Pass	Lack of Proper Signature Verification.	UltraBlock.sol	L: 0 C: 0
SWC-123	Pass	Requirement Violation.	UltraBlock.sol	L: 0 C: 0





ID	Severity	Name	File	location
SWC-124	Pass	Write to Arbitrary Storage Location.	UltraBlock.sol	L: 0 C: 0
SWC-125	Pass	Incorrect Inheritance Order.	UltraBlock.sol	L: 0 C: 0
SWC-126	Pass	Insufficient Gas Griefing.	UltraBlock.sol	L: 0 C: 0
SWC-127	Pass	Arbitrary Jump with Function Type Variable.	UltraBlock.sol	L: 0 C: 0
SWC-128	Pass	DoS With Block Gas Limit.	UltraBlock.sol	L: 0 C: 0
SWC-129	Pass	Typographical Error.	UltraBlock.sol	L: 0 C: 0
SWC-130	Pass	Right-To-Left-Override control character (U +202E).	UltraBlock.sol	L: 0 C: 0
SWC-131	Pass	Presence of unused variables.	UltraBlock.sol	L: 0 C: 0
SWC-132	Pass	Unexpected Ether balance.	UltraBlock.sol	L: 0 C: 0
SWC-133	Pass	Hash Collisions with Multiple Variable Length Arguments.	UltraBlock.sol	L: 0 C: 0
SWC-134	Pass	Message call with hardcoded gas amount.	UltraBlock.sol	L: 0 C: 0
SWC-135	Pass	Code With No Effects (Irrelevant/Dead Code).	UltraBlock.sol	L: 0 C: 0
SWC-136	Pass	Unencrypted Private Data On-Chain.	UltraBlock.sol	L: 0 C: 0

We scan the contract for additional security issues using MYTHX and industry-standard security scanning tools.



# Smart Contract Vulnerability Details

## SWC-103 - Floating Pragma.

### CWE-664: Improper Control of a Resource Through its Lifetime.

#### References:

#### Description:

Contracts should be deployed with the same compiler version and flags that they have been tested with thoroughly. Locking the pragma helps to ensure that contracts do not accidentally get deployed using, for example, an outdated compiler version that might introduce bugs that affect the contract system negatively.

#### Remediation:

Lock the pragma version and also consider known bugs (<https://github.com/ethereum/solidity/releases>) for the compiler version that is chosen.

Pragma statements can be allowed to float when a contract is intended for consumption by other developers, as in the case with contracts in a library or EthPM package. Otherwise, the developer would need to manually update the pragma in order to compile locally.

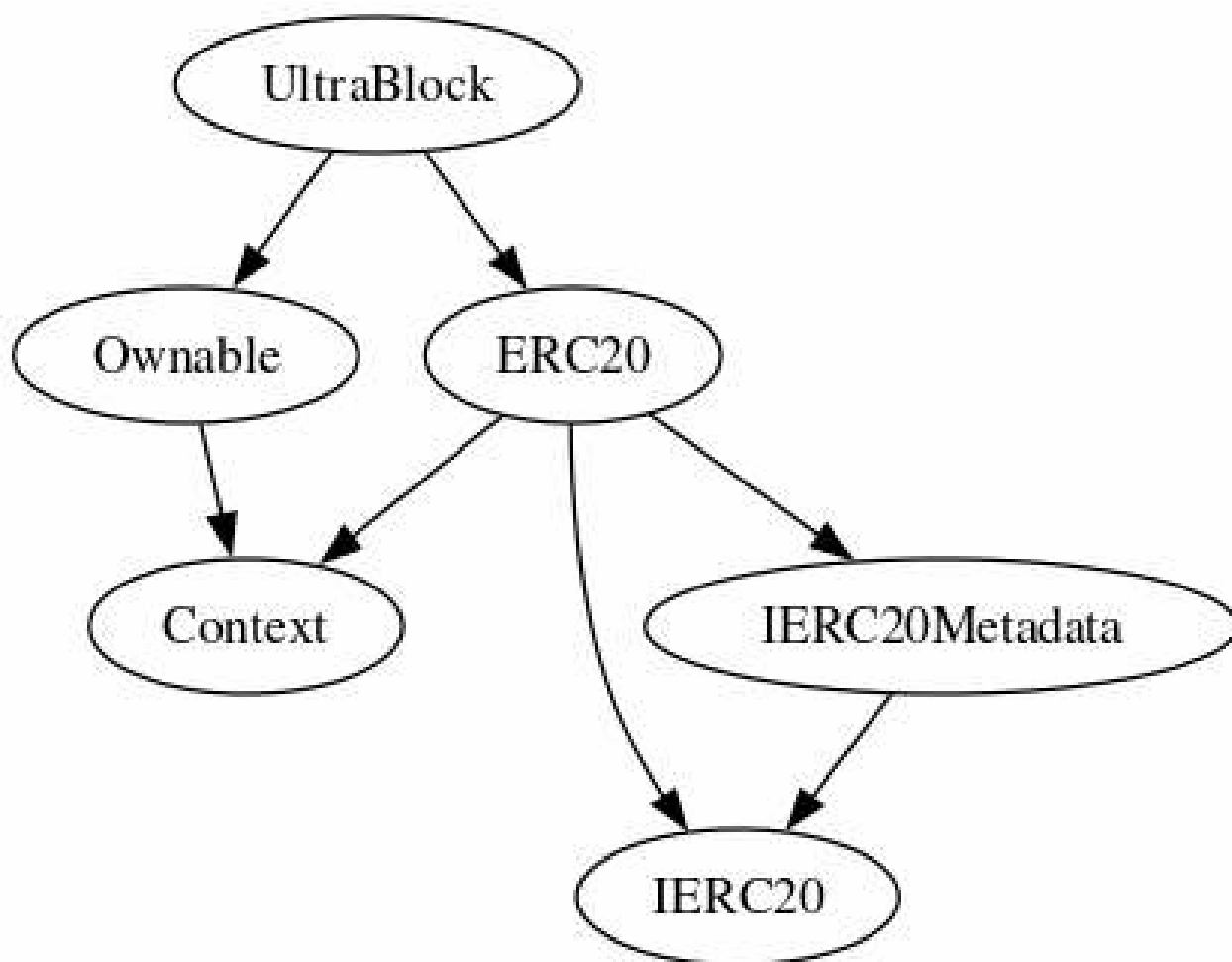
#### References:

Ethereum Smart Contract Best Practices - Lock pragmas to specific compiler version.



# Inheritance

The contract for UltraBlock has the following inheritance structure.



# Smart Contract Advance Checks



ID	Severity	Name	Result	Status
ULTRA-01	Minor	Potential Sandwich Attacks.	Pass	Not-Found
ULTRA-02	Minor	Function Visibility Optimization	Pass	Not-Detected
ULTRA-03	Critical	Lack of Input Validation.	Fail	Detected
ULTRA-04	Major	Centralized Risk In addLiquidity.	Pass	Not-Detected
ULTRA-05	Critical	Missing Event Emission.	Fail	Detected
ULTRA-06	Minor	Conformance with Solidity Naming Conventions.	Pass	Not-Detected
ULTRA-07	Minor	State Variables could be Declared Constant.	Pass	Not-Found
ULTRA-08	Minor	Dead Code Elimination.	Pass	Not-Found
ULTRA-09	Major	Third Party Dependencies.	Pass	Not-Found
ULTRA-10	Major	Initial Token Distribution.	Pass	Not-Found
ULTRA-11	Minor	Airdrop is present in code.	Pass	Not-Detected
ULTRA-12	Major	Centralization Risks In The X Role	Pass	Not-Found
ULTRA-13	Informational	Extra Gas Cost For User..	Pass	Not-Found
ULTRA-6	Minor	Unnecessary Use Of SafeMath	Pass	Not-Detected
ULTRA-15	Medium	Symbol Length Limitation due to Solidity Naming Standards.	Pass	Not-Found



ID	Severity	Name	Result	Status
ULTRA-16	Meduium	Invalid collection of Taxes during Transfer.	Pass	Not-Detected
ULTRA-17	Informational	Conformance to numeric notation best practice.	Pass	Not-Found
ULTRA-18	Minor	Stop Transactions by using Enable Trade.	Pass	Not-Detected



## ULTRA-03 | Lack of Input Validation.

Category	Severity	Location	Status
Volatile Code	 Critical	UltraBlock.sol: 125,14	 Detected

### Description

The given input is missing the check for the non-zero address.

The given input is missing the check for the unSetPair is missing required function.

### Remediation



We advise the client to add the check for the passed-in values to prevent unexpected errors as below:

```
...
require(receiver != address(0), "Receiver is the zero address");
...
...
require(value X limitation, "Your not able to do this function");
...
```

We also recommend customer to review the following function that is missing a required validation. unSetPair is missing required function.



## ULTRA-05 | Missing Event Emission.

Category	Severity	Location	Status
Volatile Code	 Critical	UltraBlock.sol: 125, 14	 Detected

### Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes. The linked code does not create an event for the transfer.

### Remediation






Emit an event for critical parameter changes. It is recommended emitting events for the sensitive functions that are controlled by centralization roles.










# 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.
 Major	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
 Minor	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	0	0
 Major	0	0	0
 Medium	0	0	0
 Minor	2	0	0
 Informational	0	0	0
Total	2	0	0



# Social Media Checks

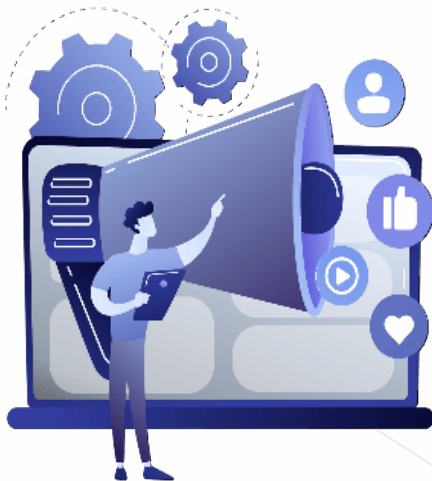
Social Media	URL	Result
Twitter	<a href="https://twitter.com/ultrablockbsc">https://twitter.com/ultrablockbsc</a>	Pass
Other		Fail
Website	<a href="https://ultrablock.site">https://ultrablock.site</a>	Pass
Telegram	<a href="https://t.me/ultrablockcommunity">https://t.me/ultrablockcommunity</a>	Pass

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	87/100
Review by Section	Score
Manual Scan Score	46/53
SWC Scan Score	36 /37
Advance Check Score	18 /19

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 80 Points, if a project does not attain 80% is an automatic failure. Read our notes and final assessment below.

## Audit Passed



## Assessment Results

### Important Notes:

- Contract has no taxes.■
- Owner can't set max tx amount.■
- No high-risk Exploits/Vulnerabilities Were Found in the Source Code.

**Auditor Score =87**  
**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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