

**EthereumMax** 

Smart Contract Audit Report





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# **AUDITED DETAILS**

# Audited Project

Project name	Token ticker	Blockchain	
EthereumMax	EMAX	Arbitrum	

# Addresses

Contract address	0x123389C2f0e9194d9bA98c21E63c375B67614108
Contract deployer address	0x331626d097cc466f6544257c2Dc18f60f6382414

# Project Website

https://ethereummax.org/

# Codebase

https://arbiscan.io/address/0x123389C2f0e9194d9bA98c21E63c375B67614108#code



### **SUMMARY**

EthereumMax (EMAX) is a progressive ERC-20 token built on the secure Ethereum network. We launched EMAX with a vision to bridge the gap between the emergence of community-driven tokens and the well-known foundational coins of crypto, creating a unique token that provides lifestyle perks with financial rewards and incentives to its holders with a pathway for practical long-term use in everyday life. This is the essence of the Culture Token.

### Contract Summary

#### **Documentation Quality**

EthereumMax provides a very good documentation with standard of solidity base code.

• The technical description is provided clearly and structured and also dont have any high risk issue.

#### **Code Quality**

The Overall quality of the basecode is standard.

• Standard solidity basecode and rules are already followed by EthereumMax with the discovery of several low issues.

#### **Test Coverage**

Test coverage of the project is 100% (Through Codebase)

## Audit Findings Summary

- SWC-100 SWC-108 | Explicitly define visibility for all state variables on lines 558 and 588.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 42, 58, 68, 69, 84, 100, 807, 813, 938, 952, 977, 991, 995, 996, 1021, 1075, 1099 and 1107.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 6.
- SWC-110 SWC-123 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 892, 893, 897, 1076, 1100, 1101 and 1108.
- SWC-120 | It is recommended to use external sources of randomness via oracles on lines 807, 813 and 1034.



# CONCLUSION

We have audited the EthereumMax project released in February 2022 to discover issues and identify potential security vulnerabilities in EthereumMax Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

The security audit report provides a satisfactory result with some low-risk issues.

The issues found in the EthereumMax smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found are some arithmetic operation issues, a floating pragma is set, a state variable visibility is not set, weak sources of randomness, and out-of-bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value. The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.



# **AUDIT RESULT**

Article	Category	Description	Result
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.	ISSUE FOUND
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	PASS
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	PASS
Uninitialized Storage Pointer	SWC-109	SWC-109 Uninitialized local storage variables can point to unexpected storage locations in the contract.	
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach a failing assert statement.	ISSUE FOUND
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used. PASS	
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.  PASS	



DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	PASS
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	PASS
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	PASS
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	PASS
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id	
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	PASS
Shadowing State Variable	SWC-119	State variables should not be shadowed.	PASS
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	ISSUE FOUND
Write to Arbitrary Storage Location	SWC-124   authorized user or contract accounts may write to		PASS
Incorrect Inheritance Order  When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.		PASS	
Insufficient Gas Griefing	SWC-126 contracts which accept data and use it in a sub-call on		PASS
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	PASS



Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	
Override control character	SWC-130	Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract.	
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	
Hash Collisions Variable	SWC-133	VC-133 Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	
Hardcoded gas amount	SWC-134	The transfer() and send() functions forward a fixed amount of 2300 gas.	
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	



# **SMART CONTRACT ANALYSIS**

Started	Wednesday Feb 23 2022 04:20:06 GMT+0000 (Coordinated Universal Time)		
Finished	Thursday Feb 24 2022 15:34:55 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	EMAX.sol		

# Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged



LINE 42

### **low SEVERITY**

This plugin produces issues to support false positive discovery within mythril.

### Source File

- EMAX.sol

```
function add(uint256 a, uint256 b) internal pure returns (uint256) {
   uint256 c = a + b;
   require(c >= a, "SafeMath: addition overflow");
   return c;
}
```



LINE 58

### **low SEVERITY**

This plugin produces issues to support false positive discovery within mythril.

### Source File

- EMAX.sol

```
57  require(b <= a, errorMessage);
58  uint256 c = a - b;
59
60  return c;
61  }
62</pre>
```



LINE 68

### **low SEVERITY**

This plugin produces issues to support false positive discovery within mythril.

### Source File

- EMAX.sol

```
67
68 uint256 c = a * b;
69 require(c / a == b, "SafeMath: multiplication overflow");
70
71 return c;
72
```



LINE 69

### **low SEVERITY**

This plugin produces issues to support false positive discovery within mythril.

### Source File

- EMAX.sol

```
68  uint256 c = a * b;
69  require(c / a == b, "SafeMath: multiplication overflow");
70
71  return c;
72  }
73
```



LINE 84

### **low SEVERITY**

This plugin produces issues to support false positive discovery within mythril.

### Source File

- EMAX.sol

```
require(b > 0, errorMessage);
uint256 c = a / b;
// assert(a == b * c + a % b); // There is no case in which this doesn't hold
return c;
88
```



**LINE 100** 

### **low SEVERITY**

This plugin produces issues to support false positive discovery within mythril.

### Source File

- EMAX.sol

```
99 require(b != 0, errorMessage);
100 return a % b;
101 }
102 }
103
104
```



**LINE 807** 

### **low SEVERITY**

This plugin produces issues to support false positive discovery within mythril.

### Source File

- EMAX.sol

```
806  //antibot - first X blocks
807  if (launchedAt > 0 && (launchedAt + deadBlocks) > block.number) {
808   _isSniper[to] = true;
809  }
810
811
```



**LINE 813** 

### **low SEVERITY**

This plugin produces issues to support false positive discovery within mythril.

### Source File

- EMAX.sol

```
812 if (
813 launchedAt > 0 && from != owner() && block.number <= (launchedAt + deadBlocks) && antiBotmode
814 ) {
815 currenttotalFee = 900; //90%
816 }
817
```



**LINE 938** 

### **low SEVERITY**

This plugin produces issues to support false positive discovery within mythril.

### Source File

- EMAX.sol

```
937
938 _balances[recipient] += amount;
939
940 emit Transfer(sender, recipient, amount);
941 }
942
```



**LINE 952** 

### **low SEVERITY**

This plugin produces issues to support false positive discovery within mythril.

### Source File

- EMAX.sol

```
951  } else {
952    uint256    calcualatedFee = tAmount.mul(curentTotalFee).div(10**3);
953    uint256    amountForRecipient = tAmount.sub(calcualatedFee);
954    _sendTransfer(sender, recipient, amountForRecipient);
955    _sendTransfer(sender, address(this), calcualatedFee);
956
```



**LINE 977** 

### **low SEVERITY**

This plugin produces issues to support false positive discovery within mythril.

### Source File

- EMAX.sol

```
976    require(to != address(0) && to != address(this), "Emax/invalid-address");
977    _balances[to] = _balances[to] + value; // note: we don't need an overflow check
here b/c balanceOf[to] <= _totalSupply and there is an overflow check below
978    _totalSupply = _totalSupply.add(value);
979    emit Transfer(address(0), to, value);
980  }
981</pre>
```



**LINE** 991

### **low SEVERITY**

This plugin produces issues to support false positive discovery within mythril.

### Source File

- EMAX.sol

```
990
991 _allowances[from][msg.sender] = allowed - value;
992 }
993 }
994
995
```



**LINE 995** 

### **low SEVERITY**

This plugin produces issues to support false positive discovery within mythril.

### Source File

- EMAX.sol

```
994
995 _balances[from] = balance - value; // note: we don't need overflow checks b/c
require(balance >= value) and balance <= totalSupply
996 _totalSupply = _totalSupply - value;
997
998 emit Transfer(from, address(0), value);
999
```



**LINE 996** 

### **low SEVERITY**

This plugin produces issues to support false positive discovery within mythril.

### Source File

- EMAX.sol

```
995    _balances[from] = balance - value; // note: we don't need overflow checks b/c
require(balance >= value) and balance <= totalSupply
996    _totalSupply = _totalSupply - value;
997
998    emit Transfer(from, address(0), value);
999  }
1000</pre>
```



**LINE 1021** 

### **low SEVERITY**

This plugin produces issues to support false positive discovery within mythril.

### Source File

- EMAX.sol

```
1020    chainId == deploymentChainId ? _DOMAIN_SEPARATOR :
    _calculateDomainSeparator(chainId),
1021    keccak256(abi.encode(PERMIT_TYPEHASH, owner, spender, value, nonces[owner]++,
    deadline))
1022    )
1023    );
1024
1025
```



**LINE 1075** 

### **low SEVERITY**

This plugin produces issues to support false positive discovery within mythril.

### Source File

- EMAX.sol

```
function excludeMultiple(address[] calldata addresses) external onlyOwner {
for (uint256 i; i < addresses.length; ++i) {
   _isExcludedFromFee[addresses[i]] = true;
}

1077  }

1078  emit ExcludeMultiple(addresses, true);
1079</pre>
```



**LINE 1099** 

### **low SEVERITY**

This plugin produces issues to support false positive discovery within mythril.

### Source File

- EMAX.sol

```
1098  ) external onlyOwner {
1099  for (uint256 i; i < addresses.length; ++i) {
1100  require(!_isTrusted[addresses[i]] || _override, "account is already trusted use overide");
1101  _isSniper[addresses[i]] = status;
1102  }
1103</pre>
```



**LINE 1107** 

### **low SEVERITY**

This plugin produces issues to support false positive discovery within mythril.

### Source File

- EMAX.sol

```
function manage_trusted(address[] calldata addresses, bool status) external
onlyOwner {
for (uint256 i; i < addresses.length; ++i) {
    isTrusted[addresses[i]] = status;
}

for (uint256 i; i < addresses.length; ++i) {
    isTrusted[addresses[i]] = status;
}
</pre>
```



## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 6

### **low SEVERITY**

The current pragma Solidity directive is ""^0.6.11"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

### Source File

- EMAX.sol

```
5  // SPDX-License-Identifier: MIT
6  pragma solidity ^0.6.11;
7  
8  abstract contract Context {
9  function _msgSender() internal view virtual returns (address payable) {
10
```



# SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

**LINE 558** 

### **low SEVERITY**

It is best practice to set the visibility of state variables explicitly. The default visibility for "DEAD" is internal. Other possible visibility settings are public and private.

### Source File

- EMAX.sol



# SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

**LINE 588** 

### **low SEVERITY**

It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwap" is internal. Other possible visibility settings are public and private.

### Source File

- EMAX.sol

```
587
588 bool inSwap;
589
590 bool public tradingOpen = false;
591 bool public zeroBuyTax = true;
592
```



**LINE 892** 

### **low SEVERITY**

The index access expression can cause an exception in case of use of invalid array index value.

### Source File

- EMAX.sol

```
address[] memory path = new address[](2);
path[0] = address(this);

path[1] = RouterV2.WETH();

approve(address(this), address(RouterV2), tokenAmount);

approve(address(this), address(RouterV2), tokenAmount);

approve
```



**LINE 893** 

### **low SEVERITY**

The index access expression can cause an exception in case of use of invalid array index value.

### Source File

- EMAX.sol

```
path[0] = address(this);
path[1] = RouterV2.WETH();

894

895   _approve(address(this), address(RouterV2), tokenAmount);

896   uint256[] memory amount = RouterV2.getAmountsOut(tokenAmount, path);

897
```



**LINE 897** 

### **low SEVERITY**

The index access expression can cause an exception in case of use of invalid array index value.

### Source File

- EMAX.sol

```
uint256[] memory amount = RouterV2.getAmountsOut(tokenAmount, path);
uint256 amountMin = amount[1].sub(amount[1].div(50));

898

899  // make the swap
900  RouterV2.swapExactTokensForETHSupportingFeeOnTransferTokens(
901
```



**LINE 897** 

### **low SEVERITY**

The index access expression can cause an exception in case of use of invalid array index value.

### Source File

- EMAX.sol

```
uint256[] memory amount = RouterV2.getAmountsOut(tokenAmount, path);
uint256 amountMin = amount[1].sub(amount[1].div(50));

898

899  // make the swap
900  RouterV2.swapExactTokensForETHSupportingFeeOnTransferTokens(
901
```



**LINE 1076** 

### **low SEVERITY**

The index access expression can cause an exception in case of use of invalid array index value.

### Source File

- EMAX.sol



**LINE 1100** 

### **low SEVERITY**

The index access expression can cause an exception in case of use of invalid array index value.

### Source File

- EMAX.sol

```
1099 for (uint256 i; i < addresses.length; ++i) {
1100    require(!_isTrusted[addresses[i]] || _override, "account is already trusted use overide");
1101    _isSniper[addresses[i]] = status;
1102  }
1103    emit Manage_Snipers(addresses, status);
1104</pre>
```



**LINE 1101** 

### **low SEVERITY**

The index access expression can cause an exception in case of use of invalid array index value.

### Source File

- EMAX.sol

```
1100 require(!_isTrusted[addresses[i]] || _override, "account is already trusted use
overide");
1101 _isSniper[addresses[i]] = status;
1102 }
1103 emit Manage_Snipers(addresses, status);
1104 }
1105
```



**LINE 1108** 

### **low SEVERITY**

The index access expression can cause an exception in case of use of invalid array index value.

### Source File

- EMAX.sol

```
1107  for (uint256 i; i < addresses.length; ++i) {
1108    _isTrusted[addresses[i]] = status;
1109  }
1110  emit Manage_trusted(addresses, status);
1111  }
1112</pre>
```



# SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.

**LINE 807** 

### **low SEVERITY**

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

### Source File

- EMAX.sol

```
806 //antibot - first X blocks
807 if (launchedAt > 0 && (launchedAt + deadBlocks) > block.number) {
808 _isSniper[to] = true;
809 }
810
811
```



# SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.

**LINE 813** 

### **low SEVERITY**

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

### Source File

- EMAX.sol

```
812 if (
813 launchedAt > 0 && from != owner() && block.number <= (launchedAt + deadBlocks) && antiBotmode
814 ) {
815 currenttotalFee = 900; //90%
816 }
817
```



# SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.

LINE 1034

### **low SEVERITY**

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

### Source File

- EMAX.sol

```
if (tradingOpen && launchedAt == 0) {
launchedAt = block.number;
deadBlocks = _deadBlocks;
}

1036 }

1037 emit OpenTrading(launchedAt, tradingOpen);
1038
```



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This is a limited report on our findings based on our analysis, in accordance with good industry practice as of the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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