



# Advanced Manual Smart Contract Audit



**Project:** Digipolis  
**Website:** <https://digipolis.xyz/>

● **Low-risk**  
9 low-risk code  
issues found

● **Medium-risk**  
0 medium-risk code  
issues found

● **High-risk**  
3 high-risk code  
issues found

**Contract address**  
**0x41aa9df60c41b07bf4f4cc1b8b3e6c9e25669a9e**

Disclaimer: SureProtector is not responsible for any financial losses. Nothing in this contract audit is financial advice, please do your own research.

# Disclaimer

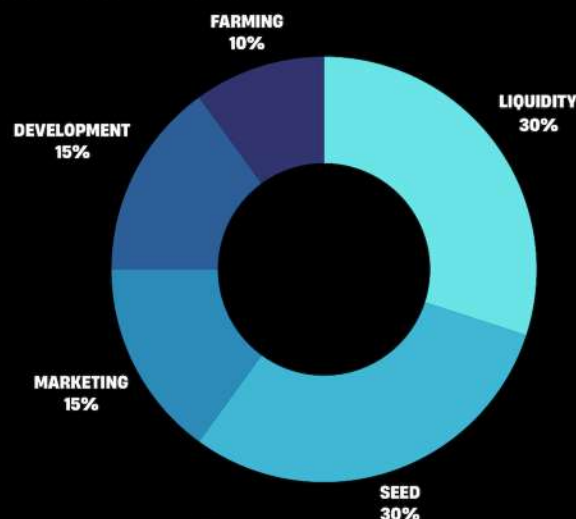
SureProtector is not responsible if a project turns out to be a scam, rug-pull or honeypot. We only provide a detailed analysis for your own research.

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# Tokenomics



# Source code

SureProtector was commissioned by Digipolis to perform an audit based on the following smart contract:

<https://etherscan.io/address/0x41aa9df60c41b07bf4f4cc1b8b3e6c9e25669a9e#code>

# Manual Code Review



## Low-risk

9 low-risk code issues found.



## Medium-risk

0 medium-risk code issues found.



## High-risk

3 medium-risk code issues found.

Issue ID	183
Severity	 Optimization
Status	High
Description Code	<code>uint8 private _decimals = 9;</code>
Location	Digipolis._decimals (Digipolis.sol#570) should be constant



Issue ID	183
Severity	🎯 Optimization
Status	High
Description Code	<b>string private</b> _name = "Digipolis";
Location	Digipolis._name (Digipolis.sol#576) should be constant

Issue ID	183
Severity	🎯 Optimization
Status	High
Description Code	<b>address private</b> _routerAddress = 0x7a250d5630B4cF539739dF2C5dAcb4c659F2488D;
Location	Digipolis._routerAddress (Digipolis.sol#595) should be constant

Issue ID	183
Severity	🎯 Optimization
Status	High
Description Code	<b>string private</b> _symbol = "DIGI";
Location	Digipolis._symbol (Digipolis.sol#577) should be constant



Issue ID	183
Severity	🎯 Optimization
Status	High
Description Code	<b>uint256 private</b> masterTaxDivisor = 100; // All tax calculations are divided by this number.
Location	Digipolis.masterTaxDivisor (Digipolis.sol#589) should be constant

Issue ID	183
Severity	🎯 Optimization
Status	High
Description Code	<b>uint256 private</b> maxLiquidityFee = 7;
Location	Digipolis.maxLiquidityFee (Digipolis.sol#582) should be constant

Issue ID	183
Severity	🎯 Optimization
Status	High
Description Code	<b>uint256 private</b> maxTreasuryFee = 8;
Location	Digipolis.maxTreasuryFee (Digipolis.sol#587) should be constant

Issue ID	183
Severity	🎯 Optimization
Status	High
Description Code	<b>uint private</b> startingSupply = 1000000000; //1 Billion
Location	Digipolis.startingSupply (Digipolis.sol#567) should be constant



Issue ID	184
Severity	🔴 Optimization
Status	High
Description Code	<b>function transfer</b> (address recipient, uint256 amount) <b>public override returns</b> (bool) { _transfer(_msgSender(), recipient, amount); <b>return true</b> ; }
Location	transfer(address,uint256) should be declared external: - Digipolis.transfer(address,uint256) (Digipolis.sol#659-662)

Issue ID	184
Severity	🔴 Optimization
Status	High
Description Code	<b>function approve</b> (address spender, uint256 amount) <b>public override returns</b> (bool) { _approve(_msgSender(), spender, amount); <b>return true</b> ; }
Location	approve(address,uint256) should be declared external: - Digipolis.approve(address,uint256) (Digipolis.sol#664-667)



Issue ID	184
Severity	🔴 Optimization
Status	High
Description Code	<b>function transferFrom(address sender, address recipient, uint256 amount) public override returns (bool) {</b> _transfer(sender, recipient, amount); _approve(sender, _msgSender(), _allowances[sender][_msgSender()].sub(amount, "ERC20: transfer amount exceeds allowance")); <b>return true;</b> <b>}</b>
Location	transferFrom(address,address,uint256) should be declared external: - Digipolis.transferFrom(address,address,uint256) (Digipolis.sol#669-673)

Issue ID	184
Severity	🔴 Optimization
Status	High
Description Code	<b>function increaseAllowance(address spender, uint256 addedValue) public virtual returns (bool) {</b> _approve(_msgSender(), spender, _allowances[_msgSender()][spender].add(addedValue)); <b>return true;</b> <b>}</b>
Location	increaseAllowance(address,uint256) should be declared external: - Digipolis.increaseAllowance(address,uint256) (Digipolis.sol#675-678)





Issue ID	184
Severity	🎯 Optimization
Status	High
Description Code	<pre>function decreaseAllowance(address spender, uint256 subtractedValue) public virtual returns (bool) {     _approve(msgSender(), spender,     _allowances[msgSender()])     [spender].sub(subtractedValue, "ERC20: decreased allowance below zero");     return true; }</pre>
Location	decreaseAllowance(address,uint256) should be declared external: - Digipolis.decreaseAllowance(address,uint256) (Digipolis.sol#680-683)

Issue ID	184
Severity	🎯 Optimization
Status	High
Description Code	<pre>function setNewRouter(address newRouter) public onlyOwner() {     IUniswapV2Router02 _newRouter =     IUniswapV2Router02(newRouter);     address get_pair =     IUniswapV2Factory(_newRouter.factory()).getPair(ad dress(this), _newRouter.WETH());     if (get_pair == address(0)) {         lpPair =         IUniswapV2Factory(_newRouter.factory()).createPair( address(this), _newRouter.WETH());     }     else {         lpPair = get_pair;     }     dexRouter = _newRouter; }</pre>
Location	setNewRouter(address) should be declared external: - Digipolis.setNewRouter(address) (Digipolis.sol#685-695)





Issue ID	184
Severity	🔴 Optimization
Status	High
Description Code	<b>function isExcludedFromReward(address account) public view returns (bool) { return _isExcluded[account]; }</b>
Location	isExcludedFromReward(address) should be declared external: - Digipolis.isExcludedFromReward(address) (Digipolis.sol#697-699)

Issue ID	184
Severity	🔴 Optimization
Status	High
Description Code	<b>function isExcludedFromFee(address account) public view returns(bool) { return _isExcludedFromFee[account]; }</b>
Location	isExcludedFromFee(address) should be declared external: - Digipolis.isExcludedFromFee(address) (Digipolis.sol#701-703)

Issue ID	184
Severity	🔴 Optimization
Status	High
Description Code	<b>function setSwapAndLiquifyEnabled(bool _enabled) public onlyOwner { swapAndLiquifyEnabled = _enabled; emit SwapAndLiquifyEnabledUpdated(_enabled); }</b>
Location	setSwapAndLiquifyEnabled(bool) should be declared external: - Digipolis.setSwapAndLiquifyEnabled(bool) (Digipolis.sol#724-727)



Issue ID	184
Severity	🔴 Optimization
Status	High
Description Code	<b>function totalFees() public view returns (uint256)</b> { <b>return</b> _tFeeTotal; }
Location	totalFees() should be declared external: - Digipolis.totalFees() (Digipolis.sol#737-739)

Issue ID	184
Severity	🔴 Optimization
Status	High
Description Code	<b>function deliver(uint256 tAmount) public {</b> <b>address</b> sender = _msgSender(); <b>require</b> (!_isExcluded[sender], "Excluded addresses cannot call this function"); ( <b>uint256</b> rAmount,,,,,) = _getValues(tAmount); _rOwned[sender] = _rOwned[sender].sub(rAmount); _rTotal = _rTotal.sub(rAmount); _tFeeTotal = _tFeeTotal.add(tAmount); }
Location	deliver(uint256) should be declared external: - Digipolis.deliver(uint256) (Digipolis.sol#758-765)

Issue ID	172
Severity	🔴 Informational
Status	High
Description Code	<b>uint256 private</b> _decimalsMul = _decimals;
Location	Digipolis._decimalsMul (Digipolis.sol#571) is set pre- construction with a non-constant function or state variable: - _decimals



Issue ID	172
Severity	🎯 Informational
Status	High
Description Code	<b>uint256 private _tTotal</b> = startingSupply * <b>10**_decimalsMul;</b>
Location	Digipolis._tTotal (Digipolis.sol#572) is set pre-construction with a non-constant function or state variable: - startingSupply * 10 ** _decimalsMul

Issue ID	172
Severity	🎯 Informational
Status	High
Description Code	<b>uint256 private _rTotal</b> = (MAX - (MAX % _tTotal));
Location	Digipolis._rTotal (Digipolis.sol#573) is set pre-construction with a non-constant function or state variable: - (MAX - (MAX % _tTotal))

Issue ID	172
Severity	🎯 Informational
Status	High
Description Code	<b>uint256 private numTokensSellToAddToLiquidity</b> = ( <b>_tTotal * 5</b> ) / <b>10000;</b>
Location	Digipolis.numTokensSellToAddToLiquidity (Digipolis.sol#602) is set pre-construction with a non-constant function or state variable: - (_tTotal * 5) / 10000



Issue ID	177
Severity	🔴 Informational
Status	High
Description Code	<code>pragma solidity &gt;=0.8.0 &lt;0.9.0;</code>
Location	Pragma version>=0.8.0<0.9.0 (Digipolis.sol#6) is too complex

Issue ID	173
Severity	🔴 Informational
Status	High
Description Code	<pre>function <b>sendValue</b>(address payable recipient, uint256 amount) <b>internal</b> {   <b>require</b>(address(this).balance &gt;= amount, "Address: insufficient balance");   // solhint-disable-next-line avoid-low-level-calls,   avoid-call-value   (bool success, ) = recipient.call{ value: amount }("");   <b>require</b>(success, "Address: unable to send value, recipient may have reverted"); }</pre>
Location	Low level call in Address.sendValue(address,uint256) (Digipolis.sol#279-285): - (success) = recipient.call{value: amount}{} (Digipolis.sol#283)



Issue ID	173
Severity	🔴 Informational
Status	High
Description Code	<pre>function _functionCallWithValue(address target, bytes memory data, uint256 weiValue, string memory errorMessage) private returns (bytes memory) {     require(isContract(target), "Address: call to non- contract");     // solhint-disable-next-line avoid-low-level-calls     (bool success, bytes memory returndata) = target.call{ value: weiValue }(data);     if (success) {         return returndata;     } else {         // Look for revert reason and bubble it up if present         if (returndata.length &gt; 0) {             // The easiest way to bubble the revert reason is             using memory via assembly             // solhint-disable-next-line no-inline-assembly             assembly {                 let returndata_size := mload(returndata)                 revert(add(32, returndata), returndata_size)             }         } else {             revert(errorMessage);         }     } }</pre>
Location	<p>Low level call in Address._functionCallWithValue(address,bytes,uint256,string) (Digipolis.sol#305-326): - (success,returndata) = target.call(value: weiValue)(data) (Digipolis.sol#309)</p>




Issue ID	167-a
Severity	🔴 Low
Status	Medium
Description Code	<pre>function setBuyTaxes(uint256 liquidityFee, uint256 treasuryFee) external onlyOwner() {   require(liquidityFee &lt;= maxLiquidityFee); // Prevents owner from abusing fees.   require(treasuryFee &lt;= maxTreasuryFee); // Prevents owner from abusing fees.   _buyLiquidityFee = liquidityFee;   _buyTreasuryFee = treasuryFee; }</pre>
Location	Digipolis.setBuyTaxes(uint256,uint256) (Digipolis.sol#705-710) should emit an event for: - _buyLiquidityFee = liquidityFee (Digipolis.sol#708) - _buyTreasuryFee = treasuryFee (Digipolis.sol#709)


Issue ID	167-a
Severity	🔴 Low
Status	Medium
Description Code	<pre>function setSellTaxes( uint256 liquidityFee, uint256 treasuryFee) external onlyOwner() {   require(liquidityFee &lt;= maxLiquidityFee); // Prevents owner from abusing fees.   require(treasuryFee &lt;= maxTreasuryFee); // Prevents owner from abusing fees.   _sellLiquidityFee = liquidityFee;   _sellTreasuryFee = treasuryFee; }</pre>
Location	Digipolis.setSellTaxes(uint256,uint256) (Digipolis.sol#712-717) should emit an event for: - _sellLiquidityFee = liquidityFee (Digipolis.sol#715) - _sellTreasuryFee = treasuryFee (Digipolis.sol#716)


Issue ID	182
Severity	🟡 Informational
Status	Medium
Description Code	<pre>uint private startingSupply = 1000000000; //1 Billion</pre>
Location	Contract Digipolis uses literals with too many digits: - startingSupply = 1000000000 (Digipolis.sol#567)





Issue ID	209
Severity	 Critical
Status	High
Description Code	<b>function transfer</b> (address recipient, uint256 amount) <b>public override returns</b> (bool) { _transfer(msgSender(), recipient, amount); <b>return true;</b> }
Location	Transfer Fee: Digipolis.transfer(address,uint256) (Digipolis.sol#659-662) - in nested function: _getTValues - in expression: _amount.mul(_liquidityFee).div(masterTaxDivisor) - in expression: _amount.mul(_treasuryFee).div(masterTaxDivisor)

Issue ID	211
Severity	 Critical
Status	High
Description Code	<b>function transfer</b> (address recipient, uint256 amount) <b>public override returns</b> (bool) { _transfer(msgSender(), recipient, amount); <b>return true;</b> }
Location	Transfer amount limits in: Digipolis.transfer(address,uint256) (Digipolis.sol#659-662) - In expression: amount >= (_tTotal / 100)

Issue ID	211
Severity	 Critical
Status	High
Description Code	<b>function transferFrom</b> (address sender, address recipient, uint256 amount) <b>public override returns</b> (bool) { _transfer(sender, recipient, amount); _approve(sender, msgSender(), _allowances[sender][msgSender()]).sub(amount, "ERC20: transfer amount exceeds allowance"); <b>return true;</b> }
Location	Transfer amount limits in: Digipolis.transferFrom(address,address,uint256) (Digipolis.sol#669-673) - In expression: amount >= (_tTotal / 100)

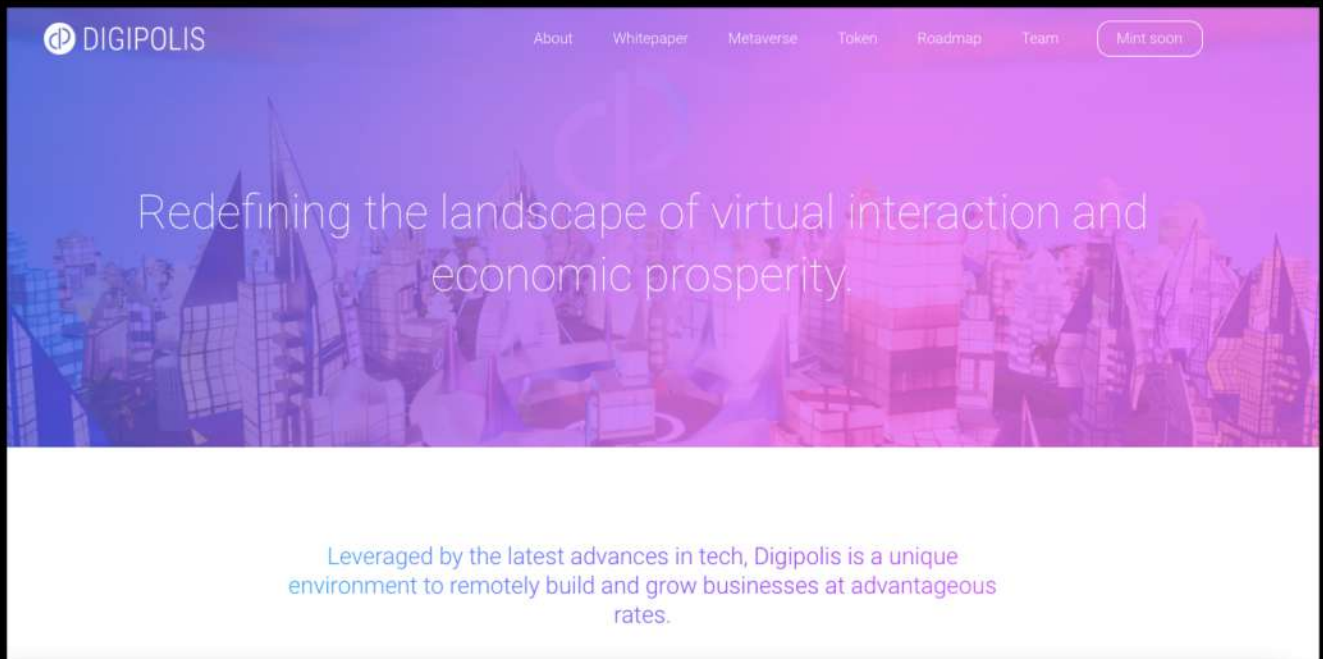




Issue ID	237
Severity	🔴 Low
Status	High
Description Code	<b>function transfer</b> (address recipient, uint256 amount) <b>public override returns (bool)</b> { _transfer(msgSender(), recipient, amount); <b>return true;</b> }
Location	whitelisted function: Digipolis.transfer(address,uint256) (Digipolis.sol#659-662) - in internal call: Digipolis._transfer(address,address,uint256) (Digipolis.sol#796-825) - in expression _isExcludedFromFee[from]

Issue ID	237
Severity	🔴 Low
Status	High
Description Code	<b>function transferFrom</b> (address sender, address recipient, uint256 amount) <b>public override returns (bool)</b> { _transfer(sender, recipient, amount); _approve(sender, msgSender(), allowances[sender][msgSender()]).sub(amount, "ERC20: transfer amount exceeds allowance"); <b>return true;</b> }
Location	whitelisted function: Digipolis.transferFrom(address,address,uint256) (Digipolis.sol#669-673) - in internal call: Digipolis._transfer(address,address,uint256) (Digipolis.sol#796-825) - in expression _isExcludedFromFee[from]

# Website Review



SureProtector checks the website completely manually and looks for visual, technical and textual errors. We also look at the security, speed and accessibility of the website. In short, a complete check to see if the website meets the current standard of the web development industry.

- Mobile Friendly
- Contains no jQuery errors
- SSL Secured
- No major spelling errors

Loading speed: 91%

# Rug-pull Review

Based on the available information analyzed by us, we come to the following conclusions:

● Tax Modifiable

● No doxxed Team

# Honeypot Review

Based on the available information analyzed by us, we come to the following conclusions:

● There is not enough data

**Note:** Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by the project owner.