



# DEQUANT

DEQUANT is the first Masternode Coin for the security of its masternodes based on quantum technology.  
The DEQUANT offers the entire Masternodes unrivaled protection through quantum technology.

Whitepaper v1.1

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# 1. What is Dequant?

The approach of DEQUANT is to solve this problem with a quantum computer to protect all Masterternodes.

Quantum offers us a powerful mechanism. There is still no Coin that protects your Masterternodes on Quantum level.

The quantum computer has long been a predominantly theoretical concept.

There are several suggestions on how a quantum computer could be realized and on a small scale, some of these concepts were tested in the laboratory and quantum computers with a few qubits were realized.

In addition to the number of qubits, however, it is also important, for example, to have a low error rate for calculating and reading, and for how long can the states in the qubits be maintained. Currently (2018), many large computer companies invest in the development of quantum computers and the record is around 50 to 70 qubits.

In the framework of complexity theory, algorithmic problems are assigned to so-called complexity classes. The best known and most important representatives are the classes P and NP. Where P denotes those problems whose solution can be calculated deterministically in terms of the input length of polynomial propagation time. NP has the problems to which there are solution algorithms that are non-deterministically polynomial. Non-determinism allows to test different possibilities at the same time. Since our current computers are deterministic, non-determinism needs to be simulated by sequencing the different possibilities whereby the polynomiality of the solution strategy can be lost.

## 2. Why cryptocurrency

There are nowadays several electronic payment systems that replace the tokens but the blockchain technology for this purpose offers many more benefits.

### 2.1. Privacy

With the conventional electronic payment systems, information on each transaction is traceable and hence users have many concerns about their privacy. It is in other words possible that someone can get access to the information on each transaction you make during the party. With crypto-technology, big brother will not be able to watch you anymore. You buy and sell without any concern for your privacy.

### 2.2. Algorithmus

The need for lightweight (that is, compact, low-power, low-energy) cryptographic hash functions has been repeatedly expressed by professionals, notably to implement cryptographic protocols in RFID technology. At the time of writing, however, no algorithm exists that provides satisfactory security and performance. The ongoing SHA-3 Competition will not help, as it concerns general-purpose designs and focuses on software performance. This paper thus proposes a novel design philosophy for lightweight hash functions, based on the sponge construction in order to minimize memory requirements. Inspired by the stream cipher Grain and by the block cipher KATAN (amongst the lightest secure ciphers), we present the hash function family Quark, composed of three instances: u-Quark, d-Quark, and sQuark. As a sponge construction, Quark can be used for message authentication, stream encryption, or authenticated

encryption. Our hardware evaluation shows that Quark compares well to previous tentative lightweight hash functions. For example, our lightest instance u-Quark conjecturally provides at least 64-bit security against all attacks (collisions, multicollisions, distinguishers, etc.), fits in 1379 gate-equivalents, and consumes in average 2.44  $\mu\text{W}$  at 100 kHz in 0.18  $\mu\text{m}$  ASIC. For 112-bit security, we propose s-Quark, which can be implemented with 2296 gate-equivalents with a power consumption of 4.35  $\mu\text{W}$ .

## 2.3 Problem Definition

First, quantum computing offers us the prospect of a technologically advanced world, as is already the case today.

Quantum technology can overcome many hurdles in machine learning.

On the other side is Quantum Computing introduce large security risks The decryption of today's computer-aided communication would not be a challenge anymore. Whether passwords of e-mail accounts, bank accounts, the security of today's systems would have to be completely questioned. Thus, also this revolutionary technology turns Cyber security on the head.

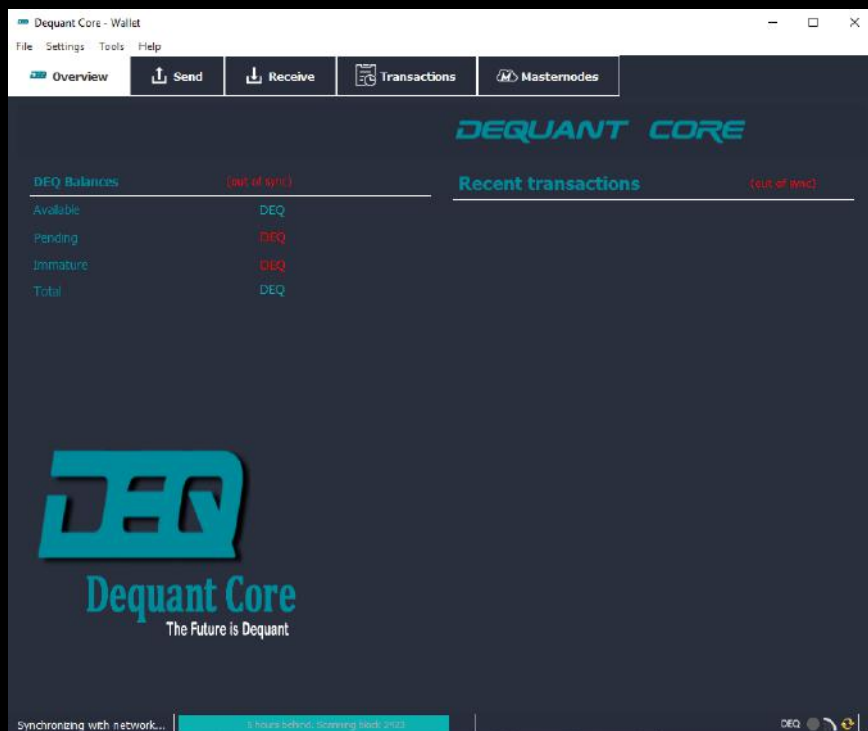
## 3.1 What is a Masternode

A masternode is a computer permanently connected to the internet running a full blockchain node. Every masternode keeps a full copy of a blockchain in real time. Masternodes fulfill different functions in a coin's transaction network, such as ensuring privacy of transactions, enabling instant transactions, or participating in governance. For the functions they perform, masternodes receive incentives or rewards.

## 3.2 Shared Master-nodes

Another innovation that guarantees more decentralization and equity, and hence more currency stability is the technology that allows investors to pool together and invest in master-nodes. Like that, people who own

## 3.3 Wallet Design



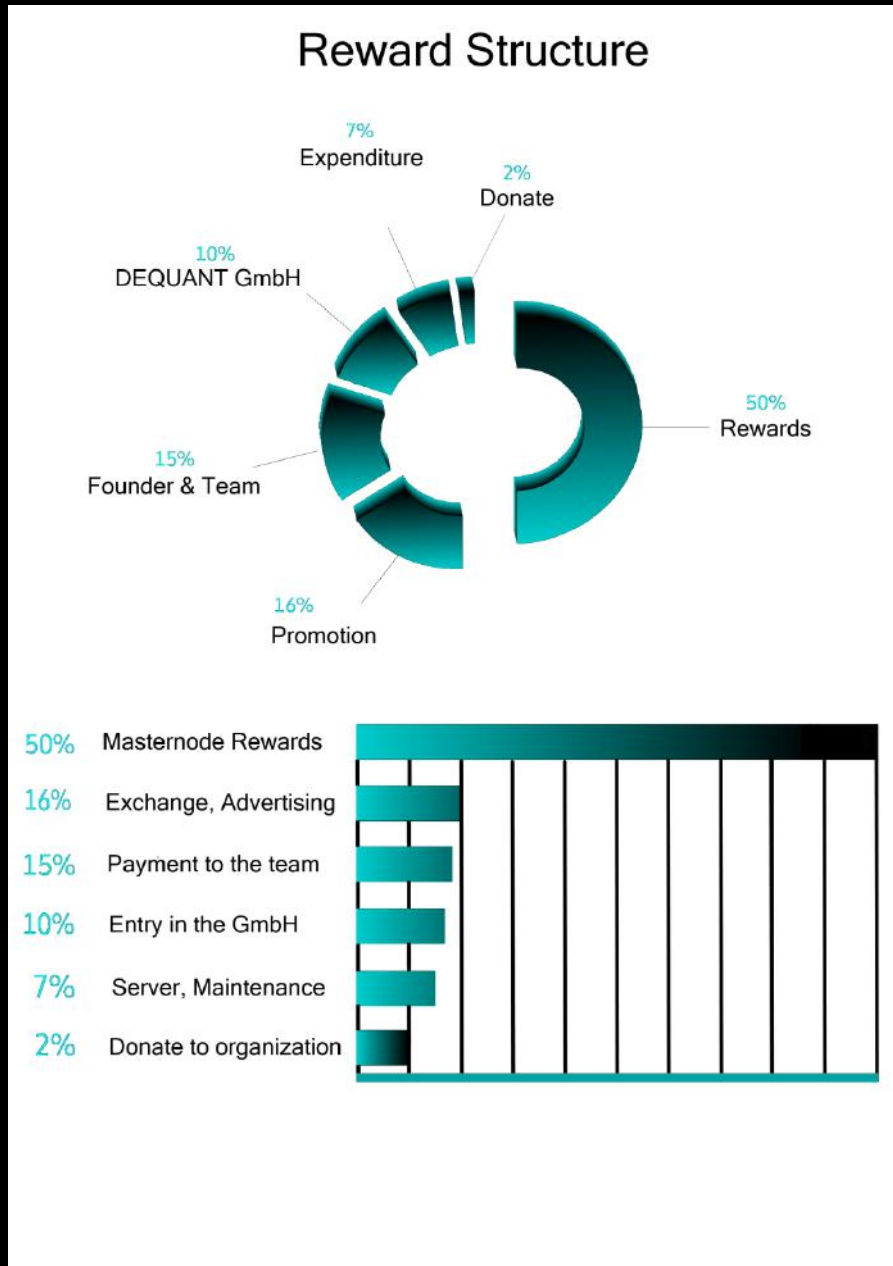
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## 4. Our Philosophy

We believe in the fact that human affairs are better managed when the decision making is decentralized whereby people become co-decision makers, which results in harmony and better societal outcomes. More decentralization also means more stability and better protection of privacy.

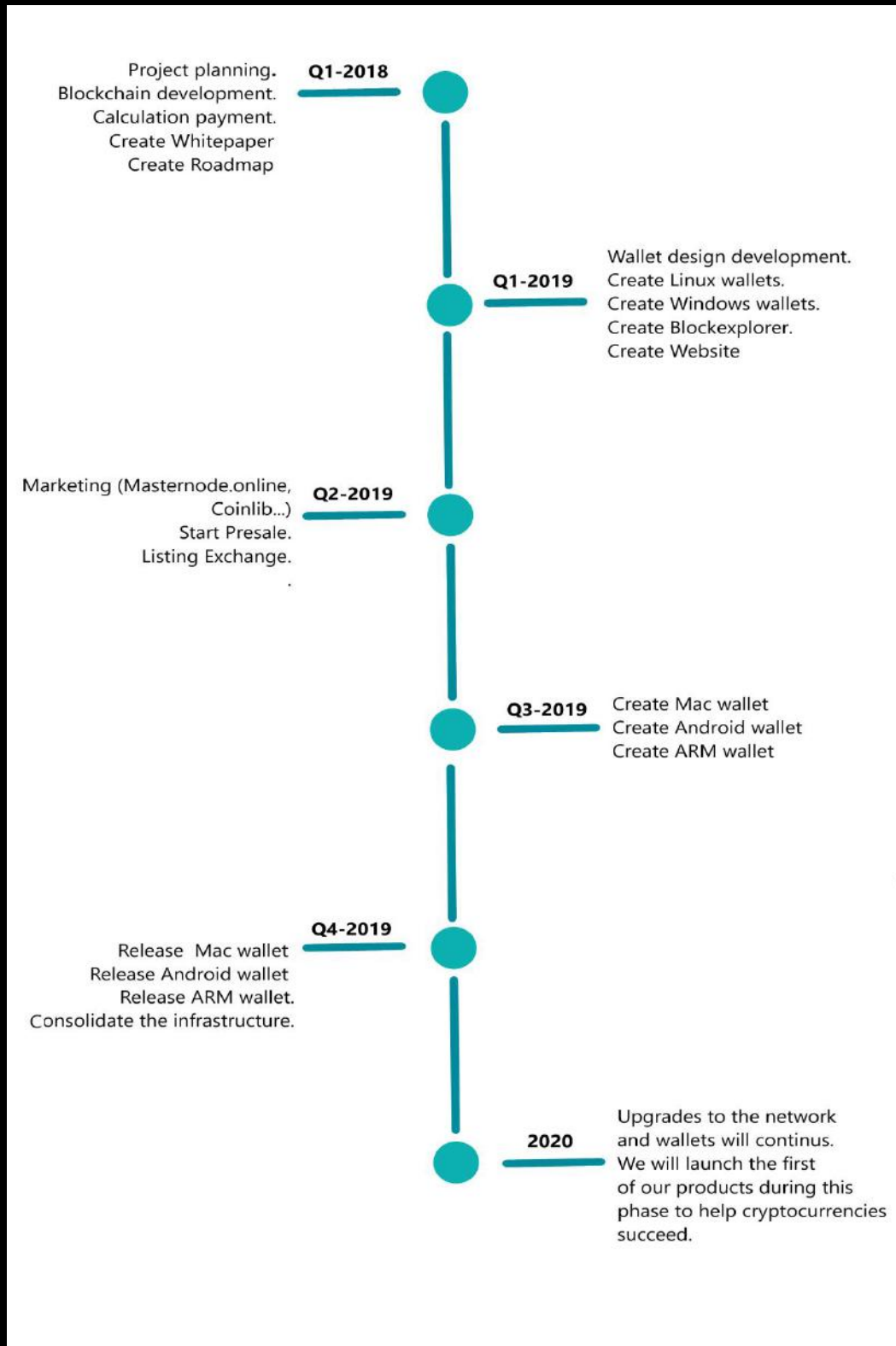
## 5. Coin infrastructure

### 5.1 Coin distribution





## 5.2 Roadmap



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5.3 Pre-Sale

Sale period:	Q2 2019
Accepted CRYPTO:	BTC
Accepted FIAT:	-
Minimum contribution amount:	0.5 BTC
Maximum cap:	-
Exchange rate:	1 USD = 2,6 DEQ 1 DEQ = 0.38 USD (After current BTC course)
Coins Lock:	20.000.000 DEQ
Required coins for masternode:	5000 DEQ

## 5.4 Coin information

TPYE:	POS / MN
Coin name:	DEQUANT
Coin Symbol:	DEQ
Algo:	Quark
Rewards:	MN (80%) PoS (20%)
MAX COIN SUPPLY:	40.000.000 DEQ
Coin Lock:	20.000.000 DEQ
MN REQUIRED COINS:	5000
Block Time:	90 Seconds

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## 6. Reward structure

Rewards			
Start	Stop	REWARD/Block	Total Blocks
0	10,000	8 Coins	80,000
10,000	20,000	13 Coins	130,000
20,000	30,000	18 Coins	180,000
30,000	40,000	16 Coins	160,000
40,000	50,000	17 Coins	170,000
50,000	60,000	22 Coins	220,000
60,000	70,000	24 Coins	240,000
60,000	80,000	28 Coins	560,000
80,000	100,000	30 Coins	600,000
100,000	120,000	35 Coins	700,000
120,000	140,000	42 Coins	840,000
140,000	160,000	48 Coins	960,000
160,000	180,000	57 Coins	1,140,000
180,000	190,000	63 Coins	630,000
190,000	200,000	60 Coins	600,000
200,000	210,000	55 Coins	550,000
210,000	220,000	50 Coins	500,000
220,000	230,000	45 Coins	450,000
230,000	240,000	40 Coins	400,000
240,000	250,000	35 Coins	350,000
250,000	265,000	30 Coins	450,000
265,000	285,000	25 Coins	375,000
285,000	300,000	20 Coins	300,000
300,000	400,000	15 Coins	1,500,000
400,000	500,000	10 Coins	1,000,000
500,000	600,000	6 Coins	600,000
600,000	1,000,000	5 Coins	2,000,000
1,000,000	End	5 Coins	


# 7. Blockchain Explorer

Dequant Explorer

[Explorer](#)
[Movement](#)
[Network](#)
[Top 100](#)
[API](#)

**Network (GH/s)**  
2008.7124

**Difficulty**  
12367.1832248748



**Coin Supply (DEQ)**  
20000288.8

**BTC Price**  
0.00000000

Search

**Latest Transactions**

Show 10 entries

Block	Hash	Recipients	Amount (DEQ)	Timestamp
2452	2ed173a06a1292b962adab611ea734cd1173b6e03c6a0e4b2cact4443af3be	2	1.50000000	Tue, 26 Feb 2019 18:03:16 GMT
2451	16efaa26a811215bd79f5ab5904896942a74438161eed0cabbd4a6a6a51ee809	2	1.50000000	Tue, 26 Feb 2019 18:02:44 GMT
2450	d57b33e03d3287dcd7526c552067239b55a0ea7651ec874c995481511253	2	1.50000000	Tue, 26 Feb 2019 18:02:58 GMT
2449	3cc376892b8641e3b3fad919269c96576bd1c05b867161aa9b747c368354c	2	1.50000000	Tue, 26 Feb 2019 18:02:27 GMT
2448	26aa01ba73127d1cb3d288c800181d4e3ff02c349dab32aca0715e32ba4a	2	1.50000000	Tue, 26 Feb 2019 18:02:23 GMT
2447	af0c5b43a63340ba0c0d0c6c77206a5a3841c53728b54e12d7ca79000073590	2	1.50000000	Tue, 26 Feb 2019 18:02:22 GMT
2446	13413e731699d6cd41183aa14399401094ad41163f59a5be5eae047474688	2	1.50000000	Tue, 26 Feb 2019 18:02:00 GMT
2445	bcab7c99ba652287c5f56d1f530b6207c6a04b91118b445c17961207112	2	1.50000000	Tue, 26 Feb 2019 18:01:51 GMT
2444	0e3a2077c7d32a3089d0eaccabed50326909b9c45e3be7a1626121a49773	2	1.50000000	Tue, 26 Feb 2019 18:01:52 GMT
2443	8f4f140a0711464520115b874ccef76d32781b2bb13659067518b179e488	2	1.50000000	Tue, 26 Feb 2019 18:01:45 GMT

Showing 1 to 10 of 100 entries

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# Dequant Core

The Future is Dequant