



€ GALPCOIN

Technical Whitepaper



BASIC FACTS

Codebase:	Litecoin 0.14.2
Hashing Algorithm:	CryptoNight
Block type:	Proof-of-work(PoW)
Block Frequency:	-90sec
Block Size:	4mb
Key Prefixes:	3 bytes, P4s/P4t (testnet), P4u/P4v(mainnet)
Difficulty recalculation:	every 2016 blocks
Pre-mining:	600 mio GPC on first 100 blocks
Minting Initialization:	blocks starting 100 to 200

MINING

Types of miner:	node, Standalone, Stratum (pool miner)
Supported Platforms:	Debian, MacOS, Windows
Reward:	½ of total fees in block or 0.005, whatever is greater (Spendable after 100 blocks)
Minting support:	Coinbase transactions obligatory refill script address used for minting transactions.

MINTING

Special type of transaction that allow receiving guaranteed yearly interest (e.g. 10%) for deposited funds. Interesting rate should be provisioned beforehand by Root Authority and can be withdrawn anytime. Root Authority (10 keys) is specified in genesis block.

SUPPORTING TOOLS

Middleware (indexing Service + REST/JSON interface + BlockExplorer) implemented on Tarantool, high-performance in-memory DB + Application server.

NODE RPC

Based on Litecoin RPC with GPC Extensions for minting transaction creation (getgpctransaction method)

WALLETS

Node wallet, desktop wallet based on Qt (MacOs, Linux, Windows), mobile wallets (IOS, Android) use middleware for transaction, creation/posting and blockchain indexing only (private keys and wallets are stored locally).