

Ledger vs Tangem 15-02-2026:

All crypto wallets can store keys, but a signer does something more: it authorizes transactions while showing you exactly what you're approving before you approve it. That difference in framing reflects a difference in design philosophy, and is what separates Ledger and Tangem. Both Tangem and Ledger store your private keys, the cryptographic codes that secure your crypto assets, isolated inside secure chips that never expose them to the internet. Your keys are generated on-device, stored in tamper-resistant silicon, and signing happens inside the chip itself.

From a pure key storage perspective, both architectures are sound, since both are designed to keep your private keys off the internet. But there's a crucial difference – Tangem's legacy onboarding requires entering your seed phrase on your phone first. Ledger never passes your keys through any external device at any point. Moreover, private keys don't exist to be stored, they exist to authorize transactions.

Tangem is a card-based NFC wallet: thin as a credit card, with no screen and no buttons. You simply tap it against your phone to sign transactions, slip it in your wallet next to your ID, and 'carry crypto like cash'.

The transaction data passes from your smartphone app through NFC to the card, which signs and returns authorization. You verify what you're signing by looking at your phone's screen. This poses a security risk, which we will take you through in the section that follows. By contrast, a signer's job is to authorize transactions while letting you verify exactly what you're about to approve directly on the secure screen of the device itself (and not your phone or any other device). This gives you the ability to verify, and not simply trust, what you're about to sign.

Ledger's decade-long experience – with over 8 million devices sold – has produced a security model that has ensured no Ledger signer has ever been hacked. All of Ledger's dedicated signers come with intuitive, secure touchscreens, a custom OS, and certified Secure Element chips.

Secret Phrase

apple club rough neck portion addict ridge sight miracle ugly laugh glory	park miss garage dumb parent morning kit giggle unlock fatal clinic ahead
tribe long modify cabbage visual imitate stone chalk minor hand anchor offer	human reveal response course magnet abuse still have ginger century velvet best
churn execute black forum engage such rather monster sleep faith drum tattoo	coin confirm clerk insect help ribbon appear all tuition arch nuclear match
fruit garbage page few column mango repair celery venture tower unfold answer	task penalty skull tail guitar robot tray ancient electric lawsuit height friend
hard warm critic plunge fashion invest bomb goat love hundred kick tomato	neutral fury blame hen butter alien moon emotion diet agree master girl
magic wild crystal earn rhythm lottery route raven ability exact pledge more	disagree taxi leopard brisk sad dash lizard math divorce arrange bread cave
mobile claim ice palm erosion antenna destroy ask ozone school bitter town	welcome wine reflect moral combine extend used device embrace fossil tree arrive
cloth develop child accuse sing lonely helmet vital brick fetch sentence cannon	retreat bacon female inflict year account syrup orbit pattern measure capable blouse
razor wood comic state million daughter youth idea upon access crew under	you bunker merge squeeze casual nominee face seed become quit enact charge
water fun zoo reform drift damp journey harvest secret orange proof cement	autumn aim apart behave mass gloom tissue film member siren uncover muscle
include tongue render case kiss lift chef chronic either attend neglect absurd	drop poverty hero oblige brave reunion swing equip mystery conduct pond margin
salon rocket scheme trouble clever grant scene cheese today light random cart	exercise shop cactus garden start draft creek test project narrow month usage
mother indoor happy fence obvious surface arena divide labor promote search utility	rookie hire weapon atom romance olympic dawn two bar frost screen post
indicate faint blade farm illegal jeans patrol record six keep auction fee	spoil glance analyst people saddle peace dial royal wall catalog poet suffer
sure unable march excite firm undo barely cheap soda puppy avoid flock	goddess episode soap tumble top bless gauge industry dice crumble dad layer
ranch beauty token matter just guard pill trial south artefact settle term	large vessel giraffe cancel spider limit health deposit lock give involve protect
puzzle music debate job plug broccoli dynamic okay hungry obey photo shadow	swarm omit tenant benefit profit story despair flash shrug wisdom play spot
toast kite turkey snow digital ill glad valve blast beef gallery train	mutual during comfort wide erase image effort exhaust bottom tragic wink approve
marriage dinner learn spatial arm buyer lab melt region source anger twin	actor budget fringe ripple find umbrella one innocent label minute faculty knock
evoke copy shift gadget length this loop grow oil nut oxygen hurt	number noble attack couch delay behind improve awkward quiz acquire timber road
runway pencil main lamp crucial dilemma champion album frozen gift sunset square	key report toward strike local target company core sketch coffee finish edit
perfect tiny meadow vicious hold entry sibling social add congress denial rain	sell solve stool since zone juice trumpet asthma gravity similar will result

script mule vocal cotton piece object smart dog special art powder fit	topic mean chicken bean position risk desk swap crane hospital agent oven
ghost window original erupt supply depend evolve legal luxury era animal below	select bright coast misery junk huge provide slide tornado list fan moment
grief inner whale judge bag buzz then typical merit diamond place equal	ceiling picture hip bridge space across silly trip kitchen what believe tourist
dream fever napkin chair attitude genre gap hammer model noodle mesh room	soft menu broom dentist clock average castle sunny rent foam bullet dolphin
captain feed spring sample cruel group coral oak relief refuse prosper iron	cash phrase fluid stand order cost seven chase yard skill rifle elder
dish monkey type able flavor lens pizza earth jelly slow essay wrong	ride document like skate audit chaos bargain plastic submit devote universe polar
board call whisper rely twenty curious negative depart seminar symbol diagram remain	ankle knife major observe derive use author gym camp wing tackle address
service owner sick night fortune sense muffin hair wrist exit head dirt	burden tool quality gentle lecture supreme shoulder doll sword husband gown control
knee essence inmate coyote absent opera torch glare cushion oyster verify great	area garment thrive travel can small basic act follow sponsor urge chat
spray element junior common slam wonder canyon rally where stadium aunt spike	update recycle save vivid emerge scan floor toddler country isolate spare multiply
wagon flame dust pumpkin neither breeze lunch index door economy engine chief	bamboo announce spell fabric raise orient machine explain rubber rebuild matrix push
lazy bundle laundry review theory question debris erode pretty whip alone rare	enhance trophy raw another asset material bird quarter client duck artist witness
naive heart permit corn motion ostrich limb cause system easy empower fog	price rotate orchard current sustain inch hollow tent brass elite gas shoot
tomorrow liar jazz opinion noise rich elbow practice real cable need sheriff	panda trigger nephew metal employ already simple broken vast cluster remove media
virus they trash feel alarm three violin eternal amazing fat decrease veteran	salute scrap wheel now mirror brown jealous island nest icon vendor try
aware dignity venue when dragon spice enrich crunch suggest candy design stomach	disorder bike diary excess law fine truth alter empty depth chimney exist
viable lemon climb zebra turn joke trade force kidney reopen license wealth	clump fresh prepare sign general method enlist enjoy enable twice insane rug
pave history steak maid fire tube ordinary rebel shuffle mention ready level	pottery wasp tiger host clap vibrant walk badge letter flight rule session
song boy rice name parrot infant alcohol casino same blanket resemble any	time wrestle grain nose normal swear mountain cook pupil skin peanut wage
mad abstract august verb logic science next brush van food leg around	text solar life sister axis express problem shaft step gesture lobster endless
swallow myth exhibit gasp increase stumble thought boring rack inhale baby business	fall deny egg distance buddy strong alpha fault gate dizzy sniff glove
collect figure wear hour various retire stove pact pink close team own	amount above also absorb expire siege echo before favorite soldier gold outer
apology stage resist assist shed blind admit easily nothing prefer fork fade	expect wreck receive outside radio section sail lounge half flower swamp weird

bone beyond museum giant side notice nerve pear found cloud wise ship	pipe bench title unusual sweet cycle thank inspire move border eager pass
mansion crash carry very embody stem again fix online silk leave end	silver panic assume warrior shallow woman copper estate sausage motor clog until
talk pen cute shove struggle exchange bring work direct reduce good cake	antique situate air cup maximum grape tunnel brain require swim palace short
glass subject avocado decade almost guide alley solution file peasant chunk tobacco	pony voyage dismiss carpet betray pudding donkey fatigue toilet boat cage connect
smooth allow artwork old unfair skirt discover spy flag teach stuff about	victory define trend throw certain boost humor february latin deer segment snap
ignore clip later patch process intact over sphere pulse rigid pluck purity	away always wrap fish degree slab angle mom wheat tide purse cereal
dinosaur merry suspect trick vanish predict install grocery doctor lucky immense base	drill mammal drastic picnic parade aspect shock version clutch embark elevator inform
quantum couple cousin glue together put draw network satoshi roof jar stairs	someone scout tired awake exclude pigeon possible acid unique rose hat airport
summer borrow affair mask valley diesel thumb basket foil craft subway cinnamon	busy option pride seat inject pioneer decorate awful pet valid evil laptop
crack width liberty organ glow into burger hub jump age repeat slogan	birth remember student scatter toe change kangaroo sorry onion note spawn hidden
because soup speak silent mushroom correct seek flip radar weekend slice pause	man foster hobby rabbit surge second lady better once balance world lake
often defy enemy barrel genuine elegant lunar drink crouch accident wish soon	else inherit true hello resource private identify regret bracket desert chapter stay
property odor jungle upper among dry frequent humble ring upset clown other	enter car gospel luggage kid oppose quote worth public quick tortoise soul
planet armed swift unit dutch rival first invite elephant fiscal galaxy produce	blush unhappy shield cool immune near river rude book purchase news chest
mistake furnace milk wet visa trim gain clay village outdoor panel early	survey toy myself only arctic reason oval uniform vehicle blood cream decline
joy make hybrid enroll snack describe stock actual boss blur bronze deal	sand decide voice path frog cover caught street output share monitor notable
damage hurry grass envelope achieve balcony gaze season unveil fragile culture dwarf	physical movie useful success release regular novel phone choose load expand december
recipe raccoon wire power initial want coach sun marble pig census series	hawk convince weasel melody flat person edge fox consider cupboard word mercy
turtle obtain split afraid jewel false strategy replace double crawl meat lyrics	display crazy keen hunt acoustic enforce sea inquiry bounce leaf bulb priority
tank hole staff fly ramp visit citizen manage blue popular surround boil	catch buffalo dove party spend transfer clean video gather rapid twelve taste
caution rural wool prison harbor patient category pull vapor lesson riot theme	exile recall father differ marine canal banner reject demise forget annual angry
begin between rib tell endorse language adapt fiber surprise carbon manual harsh	hint honey gorilla please tuna wife cry crater cattle mix much hurdle
inside web market solid high pair color mechanic steel cliff salt middle	olive liquid domain awesome grunt tilt maze trap tonight fiction useless say

curve slim rate urban deliver auto salmon bind custom extra horn wave	run april shy slender home item walnut wait treat speed pole crisp
uphold virtual forward thunder lawn aerobic amused paper tape detail cricket leisure	poem click horse frame mouse jacket holiday capital hotel filter canoe kind
energy must tag disease upgrade interest athlete fame brand mimic fuel alert	donate sudden beach remind example robust hill sadness crush void coconut build
scorpion obscure rail slot foot ocean hood detect wash unknown deputy total	genius panther actress ladder legend argue aisle hover kingdom advice ski satisfy
bubble concert vague minimum famous east attract blossom ketchup sting city lumber	fantasy range nasty assault exotic battle guilt thing bachelor ritual dune off
danger tennis zero canvas card twist brief funny live round talent action	entire eye code cross govern hope federal right kiwi defense flush pyramid
excuse flee point cigar yellow idle unaware ethics habit finger way adjust	rescue stereo maple pilot illness adult army sound usual kitten cargo grace
vintage educate hazard punch dress ball front abandon check duty issue print	spin impulse come reward snake donor pelican globe mail north eight pool
race gun paddle warfare roast office loud biology horror ticket mind uncle	garlic anxiety body scare stable cherry setup tooth afford sport sock income
loan purpose spirit plate volume burst fancy drive message praise drip nature	there divert cram leader mixed bid forest focus young smile family dose
orphan fold ten hamster circle daring truck wedding ecology injury final relax	soccer security present spoon box never cabin game stamp gossip bleak crime
eagle crowd track weather switch return lava eyebrow suit cat shiver crop	slush shell topple guess waste loyal style size sugar feature squirrel civil
salad left curtain vacant chuckle october glimpse tip write memory armor prevent	tone slight library primary prize pistol medal vote arrow bicycle police potato
winter expose join mosquito little pepper nice lion toss vacuum glide frown	sort vault mixture advance hockey shine volcano float proud credit scale field
arrest traffic truly cruise enough hedgehog payment camera ensure clarify calm pitch	view wolf fitness shrimp scrub shoe jaguar senior occur spread pulp program
escape grid renew scissors net choice know midnight cube grit grab banana	goose evidence amateur festival future belt day impose west coil bulk dance
mandate impact worry heavy demand input trust brother error nation super sauce	cradle safe claw table ivory piano lend bonus symptom win nurse open
bus winner drama green stick link smoke that dice retreat side during	