6 MintStations — Your On-Chain Infrastructure for Real-World Moments

Concept Summary

MintStations are physical or digital touchpoints where users can mint NFTs, claim tokens, or trigger smart contract logic — based on presence, proof, or interaction. They act like QR-enabled, programmable portals embedded in space, culture, or events.

> Picture it: A mintstation on a lamppost. You scan it. You mint a memory. You unlock a quest. Boom — reality just went on-chain.

Core Components

Component Description

QR/Scanner Interface Entry point for interaction — physical sticker, screen, or NFC Location Proof Optional GPS/PoP confirmation for location-specific minting Smart Contract Trigger Mints rNFT, drops tokens, verifies attendance, or starts a quest rNFT Output The minted result: access pass, voucher, badge, collectible Metadata Includes timestamp, coordinates, SDG tie-in, event ID, etc.

* How It Works

1. Deploy Station

Print QR code, install touch terminal, or embed NFC chip

Can be static (permanent) or event-based (temporary)

2. User Interaction

User scans via wallet app, Drop.me link, or browser

Optional: confirm location with PoP or GPS

3. Mint Triggers

Automatically generates an rNFT or GeoNFT

rNFT may include claim logic, unlockable quests, identity proof

4. Smart Layer

Contract stores who minted, when, and where

Can airdrop POSI points, open DAO access, or issue rewards

5. Station Analytics

See usage heatmap, wallet reach, return rates, SDG alignment

Station Types

Type Function / Example

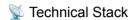
Urban Street pole w/ SDG graffiti & mintstation (Berlin pilot)

Retail Shopfront: scan to unlock local NFT voucher

Event Conference: scan to check in & claim rNFT badge Museum Exhibit station: mint location-based POAP

QR Poster Public ad or flyer triggers Drop.me quest via scan

Mobile Temporary pop-ups, geo-hunt waypoints, bikes, moving carts



QR + Frontend: Simple scan redirects to Web3-enabled frontend (e.g., mint.web3map.ai/station/123)

Smart Contract: Mints NFT, writes event data, or triggers logic

PoP/GPS Verification: Optional ZK or mobile GPS check

IPFS/Ceramic: Storage for visual/media metadata

Drop.me Integration: Mission delivery, inbox link, airdrop follow-up

© Use Cases

Context Use Case

Urban Zones Activate street-level participation, reward local exploration

Education Mint certificate for attending session/workshop

Tourism GeoNFT memory of landmark visit with SDG map badge

Retail NFT-based discount vouchers or affiliate rewards

Civic Action Mint proof of survey, protest, clean-up participation

Gamified AR Treasure hunt: find mintstations, collect all 17 SDG tokens

- **X** Power Features
- Token-Gated Output: Only allow mint if you hold an rNFT or GeoNFT
- Time-Based Logic: Only active on certain days/times (e.g., night tour)
- ① Dynamic Drop: Based on user profile (Drop.me AI = smart personalization)

- Recyclable NFT System: Mints rNFTs that evolve or reset based on future scans
- KYC-Free Participation: No wallet needed temp QR-based minting possible

Linked Systems

Protocol How It Connects

rNFTs Output of mintstations — every scan creates dynamic rNFT GeoNFTs Mintstation can trigger mints tied to physical places Drop.me Sends follow-up quests, messages, or affiliate links

GeoDAOs Used to gather participation data, votes, or spatial triggers

POSI System Awards contribution score based on scan, task, mission completed

EXIT+ Mintstation usage data justifies public goods investment claims

Why MintStations Matter

Physical-world entry point into the ecosystem

Tokenizes human presence, memories, and movement

Deployable by anyone — from artists to governments

Turns any wall, streetlamp, or poster into a smart contract gateway