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Crypto Exchange API Report 2024

How to Choose a Crypto Exchange API?



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Cryptocurrencies are again climbing to the peaks of investor and business owner interest, as the crypto winter seems to be over with the adoption of BTC and ETH ETFs. At present, the global market cap of crypto stands at $2.09 trillion, and the 24h trading volume exceeds $63 billion, suggesting the revived interest in this field.

Thus, the future of crypto is definitely positive regardless of several undecided issues in the regulatory domain. People are again turning their heads to well-established and young crypto projects, which testifies to the unending popularity of blockchain as a technology innovation.

The number of crypto-related platforms, businesses, and apps continues growing to meet the rising user demand. So, the need for high-quality crypto exchange APIs remains high. They enable your software product's interactions with popular crypto exchange platforms for trade execution, market data tracking, and wallet management.

However, the choice of a crypto exchange API can make or break your project, as safety and functionality make a real difference in Web3. To help you make an informed decision, the 4IRE team of blockchain experts came up with this detailed overview of the top APIs and compared them across a number of essential parameters.

Top 6 Popular Crypto Exchanges Compared

Based on the available ratings of popular cryptocurrency exchanges, we have identified six top exchange platforms that deserve your attention as a business owner.

	OKX	ByBit	Binance	Kraken	Coinbase	Bitstamp
Europe Licensed	No (June'24)	No	Yes (Lithuania)	Yes (Lithuania)	Yes	Yes
Supported Coins	336+	400+	350+	200+	240+	80+
USDT/EUR Pair	Yes	Yes	Yes	Yes	No, only USDC supported	Yes
Exchange Fees	maker – 0.140% taker – 0.230% info↗	maker – 0.0200% taker – 0.0200% info↗	maker – 0.1% taker – 0.1% info↗	maker – 0.25% taker – 0.40% info↗	maker – 0.02% taker – 0.04% info↗	maker – 0.30% taker – 0.40% info↗
Trading limits	Yes	Yes	Yes	Yes	Yes	Yes
USDT withdrawal netwroks supported (all support EUR withdrawal)	TRC20; ERC20; Polygon; Avalanche C-Chain; Arbitrum one; Optimism	ERC20; TRC20 and many other info↗	ERC20; TRC20 and many other info↗	ERC20; TRC20 info↗	info↗	ERC20; BEP2; TRON
Trading volume (24hrs)	$1,863,329,988.27	$2,970,484,808.86	$11,930,046,454.93	$539,294,400.11	$1,528,756,695.65	$103,260,095.04
Payment Methods	Visa, Mastercard, Bank transfer, and Apple Pay	SEPA and TrueLayer	SEPA, P2P, and Debit card	SEPA, Bank transfer, and SWIFT	SEPA Transfer, Debit Card, PayPal, Apple Pay, GooglePay, Sofort, and iDeal	SEPA Transfer, Debit Card, PayPal,
Build-In crypto wallet	Yes	Yes	Yes	Yes	Yes	No
Official page	OKX	ByBit	Binance	Kraken	Coinbase	Bitstamp

OKX

OKX is a cryptocurrency exchange with global coverage, founded in 2017 by Star Xu. It is currently the second-largest crypto exchange by daily trading volume, which currently stands at $1.8+ billion. The platform has 50+ million registered users and supports 325+ currencies. OKX users can also execute trades with the USDT/EUR pair, though the exchange is not licensed for work in Europe.

The company offers a 0.14% maker fee and a 0.23% taker fee for trades on the platform and supports TRC20, ERC20, Polygon, Avalanche C-Chain, Optimism, and Arbitrum One as withdrawal networks. Users can deposit and withdraw fiat money via Visa, Mastercard, Apple Pay, and a bank transfer, and they can enjoy the built-in crypto wallet on the platform for asset exchange and storage.

Pros of OKX

- The exchange offers over 670 trading pairs and a long list of supported cryptocurrencies.
- Trading fees are among the lowest in the crypto market. Many innovative trading features are available.
- OKX offers many passive income opportunities via its Earn program.
- Users enjoy an easy sign-up process and can use multiple deposit/withdrawal methods.

Cons of OKX

- OKX has no licensing in Europe, the USA, and Canada.
- There are significant withdrawal limitations and fees.
- The complex interface may be overwhelming to newbies.
- Customer support is reported to be slow at times.

OKX API

This exchange platform offers REST and WebSocket APIs for businesses wishing to integrate with it. There is a dedicated page with API integration tutorials, resources, and support materials, as well as Python SDK libraries for simpler integration. The instruction features a guide to V5 API key creation and REST/WebSocket authentication. Developers can also access customer service on all unclear issues on this page.

ByBit

Established in 2018 and regulated under the jurisdiction of Cyprus, ByBit serves over 30 million users and offers 500+ cryptocurrencies for trading and investment. It also features the USDT/EUR trading pair and allows users to replenish their accounts in Euros. The platform enjoys high user activity and currently has a 24-hour trading volume of $2.97+ billion.

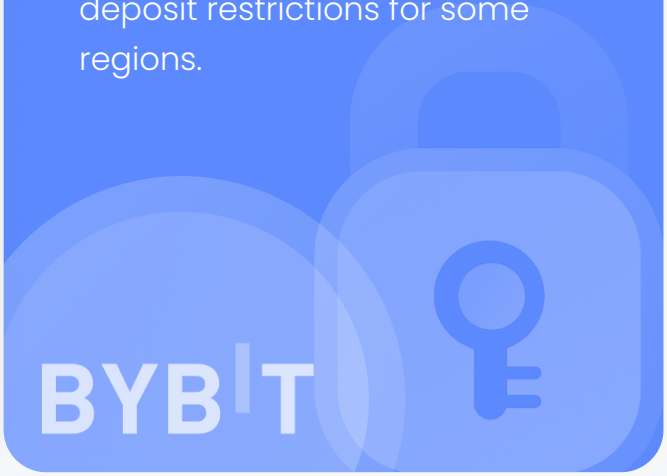
The crypto exchange has very low trading fees compared to other platforms, with a single 0.02% rate for maker and taker deals. It supports withdrawals via ERC20, TRC20, and a range of other blockchain networks to make user dealings convenient. Users can deposit funds via SEPA and TrueLayer payment methods and take advantage of a functional built-in crypto wallet for on-site asset management.

Pros of ByBit

- Low maker and taker fees for trades.
- Variety of payment methods and supported blockchain networks.
- Built-in crypto wallet.
- A user-friendly user interface and trading functionality.
- Availability of copy trading features.
- A mobile app is available.

Cons of ByBit

- No licensing for European and US users.
- Fiat currency withdrawal and deposit restrictions for some regions.



ByBit API

ByBit employs HMAC encryption as a protective measure for safe authentication. The process of integration is done with the help of Python, Node.js, and WebSocket programming tools. There are several versions of ByBit APIs geared towards different products and features you want to integrate. V3 API supports spot trading and USDC perpetual and options contracts, while developers wishing to give their users access to inverse perpetual and futures contracts will require V2 API. Those who want all-in-one access may integrate V3 API, which allows spot, derivative and options trading via a single API connection. The exchange provides a helpful integration manual for developers on its ByBit LEARN resource.

Binance

Binance was founded in 2017; it currently enjoys the status of the world's best-known crypto exchange, currently featuring over 380+ currencies for trading and serving 170+ million users worldwide. That's why the exchange platform enjoys an immense 24-hour trading volume of almost $12 billion. The range of supported blockchain networks is long, including ERC20, TRC20, Solana, and the like. Users can complete deposits and withdrawals via SEPA, P2P methods, and a variety of credit or debit cards.

The platform provides a handy built-in wallet for asset management and offers a single taker and maker fee of 0.1% of the deal. It also supports dozens of fiat currencies, including the USDT/EUR trading pair. What's more, it works on European licensing, with one active license in Lithuania thus far.

Pros of Binance

- A large number of users and trading pairs.
- Low fees compared to many other exchange platforms.
- Wide selection of trading instruments and analytical tools.
- A relatively simple user interface.
- A built-in crypto wallet.
- Multiple deposit and withdrawal options for fiat currencies.
- Global coverage (except for the USA and some EU countries).

Cons of Binance

- The platform has faced legal issues from the SEC, with its SEO pleading guilty to money laundering.
- Beginner users find the Binance interface too complex.
- The platform doesn't have email or phone support.
- Access to derivative trading is restricted in some regions (e.g., Australia).

Binance API

Binance claims to give access to spot, margin, futures, and options trading features for 300+ digital and fiat currencies with a single key. The API trading functionality includes a testing environment, API documentation, and sample code in all popular programming languages used for API integration. Developers can also link to Binance market data with Binance API and Websocket services. Users will get access to mining, C2C market features, NFT marketplace, ETH staking, and crypto loans. There is also a VIP & Institutional API integration variant for professional crypto trading services. Developers can get solid support at all stages of integration from the Binance Support resource and Binance Developer Center.

Kraken

Founded in 2011, Kraken currently offers around 220 cryptocurrencies for trading and serves 10 million users. The company claims to be the #1 crypto trading platform in Europe, with a 35%+ market share. As of 2019, around 13% of the world's cryptocurrency circulation took place on Kraken. Yet, at present, its 24-hour trading volume stands at around $539,000, which is due to a relatively smaller user base than at other reviewed crypto exchanges. It supports deposits and withdrawals in fiat currencies via SEPA, SWIFT, and bank transfers and has a functional and safe built-in wallet for fund storage and management.

The notable feature of Kraken is its high trading fees. The platform has set the maker fee at 0.25% of the deal, and the taker fee is the highest in the market – 0.4% of the trade. The platform supports the USDT/EUR trading pair and enables transactions across a large number of blockchain networks: ERC20, TRC20, AVAX, BTC, ARB, and the like.

Pros of Kraken

- A large number of supported cryptocurrencies.
- High level of transparency.
- Availability for crypto trading features for US customers.
- High liquidity.
- Simple and clear user interface.

Cons of Kraken

- High trading and transaction fees.
- High costs of buying crypto for USD.
- Staking and rewards are no longer available.
- Limited funding options for US customers (only Trustly partners are eligible).
- High user fees for users with regular accounts (discounted fees are available only for Kraken Pro plans).

Kraken API

Kraken offers a variety of APIs for developers, ranging from the FIX 4.4 API for institutional clients to asynchronous WebSockets and synchronous REST API for various purposes. Separate API keys are available for crypto spot and futures trading and for crypto data feeds. Developers can find all the needed keys for relevant API types on the Kraken API documentation page.

Coinbase

Coinbase is the largest US-based crypto exchange. It currently supports 235+ cryptocurrencies and has a user base of 90+ million users. Its significant advantage is licensing for activities in the EU, but it doesn't support the USDT/EUR trading pair. Users can replenish their accounts and buy USDC only. The exchange's 24-hour trading volume currently stands at over $1.5 billion, and the trading fees are calculated based on

the user's tier (volume of daily trades). Users can deposit and withdraw fiat money with the help of SEPA transfers, debit and credit cards, PayPal, Apple Pay, Google Pay, Sofort and iDeal methods.

Pros of Coinbase

- The exchange allows small minimum deposits and trades starting from $2.
- Crypto withdrawals are quick and efficient.
- Availability of a "learn to earn" program.
- Convenience of trading and interface.
- Variety of cryptocurrency staking options.

Cons of Coinbase

- High fees for wire transfer deposits and withdrawals.
- Legal issues with the SEC.



Coinbase API

Coinbase offers a handy API for the integration of its trading features into third-party apps and software. To link to Coinbase, the developer should have a registered and verified account. The advanced API keys of Coinbase give wide access to trading features, such as high liquidity in 550+ markets, automated market, limit, and stop-limit orders with REST API, and customization features for trading bot creation on the basis of Coinbase.

Bitstamp

Bitstamp is also among the pioneers of the crypto exchange market, launched back in 2011. This exchange offers only around 80+ cryptocurrencies and has high fees (0.3% for maker deals and 0.4% for taker deals). Yet, it is licensed to service EU clients and offers support for the USDT/EUR trading pair. Users can transact with their digital assets across multiple blockchain networks, such as ERC20, TRC20, BEP2, and TRON, among others. The 24-hour trading volume on the platform stands at a bit more than $100 million per day, and the user base is currently around 5 million users.

Pros of Bitstamp

- Multi-tier trading fees.
- Ease of use even for beginners.
- Advanced trading features are available on the platform.
- A safe and functional mobile trading app.
- Crypto staking opportunities.

Cons of Bitstamp

- The exchange was hacked in 2015, which undermines trust in its security.
- Some major cryptocurrencies are missing in its range of offerings.
- Fees for low volumes of trading are too high for retail users.

Bitstamp API

Users can find all the information about API integration and download documentation at the Bitstamp API support center. The resource contains detailed information on the response codes, request limits, and guidelines for the commercial use of Bitstamp's exchange data. The page features authentication examples, sample codes for various integration stages, etc. There is also a dedicated WebSocket API v2 page where developers can get the documentation and integration keys. The platform offers a Bitstamp Open Banking API (PSD2) as well, enabling secure access to financial data in compliance with the 2015 EU Directive for PSD2.

How to Choose a Cryptocurrency Exchange API for Your Project?

It is vital to keep to a clear quality checklist when you're selecting the cryptocurrency exchange API for your project. We at 4IRE usually include the **following criteria** in the review:

Number of supported cryptocurrencies

A larger number of supported cryptocurrencies gives businesses and their users more freedom and flexibility in trading and investment activities.

Fees and trade limits

Every transaction on the crypto exchange exchange with reasonable fees so that high commissions don't push your users back.

Variety of trading features

Modern users are spoilt for choice when it comes to crypto trading, so they want to enjoy a broad range of trading features available on one platform. Thus, we recommend partnering with a platform that offers spot and futures trading, options, swaps, staking, lending, and marginal deals.

Business transparency and credibility

Numerous notorious exchange crashes have taught people the bitter lessons of working only with reliable partners. Therefore, it is important to work with a crypto exchange that has a transparent business strategy and policy.

Availability of mobile app

Crypto trading and portfolio management on the go are realities of the present-day industry. Thus, it makes sense to work with exchanges that have mobile apps and allow hassle-free asset management from a smartphone.

Security guarantees

Cybersecurity is key in the Web3 world, and the crypto exchange with which you're partnering should be able to guarantee the security of user data and funds.

Interface

It makes sense to partner with a crypto exchange that offers a simple and intuitive UI for the sake of guaranteeing a positive user experience for your clients.

Latency and uptime

A combination of low latency and high uptime is ideal for a functional crypto exchange that can provide high-quality service to users.

Authentication measures

The crypto exchange should have a rigorous yet hassle-free KYC/AML procedure that will help your clients get access to all features of the trading platform after verifying their identities.

Developer support

It is much easier to work with a cryptocurrency exchange API if the platform has a wide developer community and offers developer support via forums or direct inquiries in emails or live chats.

Ease of API integration

The simplicity of the exchange's SDK integration also plays a role in the selection process. The integration process speeds up if the exchange provides code samples and guidance.

User reviews

The crypto exchange you're choosing for partnership should enjoy positive publicity online. It is vital to check what other users say about convenience, fees, quality and responsiveness of support, and other critical areas of service.

Here is a handy infographic that compares the chosen crypto exchange APIs across the identified parameters:

	OKX	ByBit	Binance	Kraken	Coinbase	Bitstamp
Trading Features	Spot, futures, options, perpetual swaps, margin	Spot, futures, perpetual swaps, margin	Spot, futures, margin, staking, lending	Spot, futures, margin, staking	Spot, margin, staking, lending	Spot, margin, staking, lending
Market Data	Real-time and historical data, order books	Real-time and historical data, order books	Real-time and historical data, order books	Real-time and historical data, order books	Real-time and historical data, order books	Real-time and historical data, order books
Account Management	Balance checks, deposit/withdrawal, transaction history	Balance checks, deposit/ withdrawal, transaction history	Balance checks, deposit/ withdrawal, transaction history	Balance checks, deposit/ withdrawal, transaction history	Balance checks, deposit/ withdrawal, transaction history	Balance checks, deposit/ withdrawal, transaction history
Latency	Low latency	Low latency	Low latency	Low latency	Low latency	Low latency
Uptime	High uptime, status page available	High uptime, status page available	High uptime, status page available	High uptime, status page available	High uptime, status page available	High uptime, status page available
Rate Limits	High limits, adjustable for higher tiers	Moderate to high limits, adjustable for higher tiers	High limits, adjustable for higher tiers	Moderate to high limits, adjustable for higher tiers	Moderate to high limits, adjustable for higher tiers	Moderate to high limits, adjustable for higher tiers
Authentication	API keys, HMAC signatures	API keys, HMAC signatures	API keys, HMAC signatures	API keys, HMAC signatures	API keys, OAuth	API keys, HMAC signatures
Documentation	Comprehensive, includes examples and error codes	Comprehensive, includes examples and error codes	Comprehensive, includes examples and error codes	Comprehensive, includes examples and error codes	Comprehensive, includes examples and error codes	Comprehensive, includes examples and error codes
Developer Support	Available via forums and email	Available via forums and email	Available via forums, email, and live chat	Available via forums and email	Available via forums, email, and live chat	Available via forums and email
Ease of Integration	Easy, with SDKs and code samples	Easy, with SDKs and code samples	Easy, with SDKs and code samples	Easy, with SDKs and code samples	Easy, with SDKs and code samples	Easy, with SDKs and code samples
User Reviews	4.6	4.5	4.5	4.8	4.2	4
KYC/AML Procedures	Comprehensive KYC/AML	Comprehensive KYC/AML	Comprehensive KYC/AML	Comprehensive KYC/AML	Comprehensive KYC/AML	Comprehensive KYC/AML

4IRE Can Help You with Crypto Exchange API Integrations?

If you're planning to integrate a crypto exchange API into your business project but lack the needed technical expertise to choose and implement one, 4IRE is ready to help.

We have a large, qualified team of blockchain engineers and experts who will advise you on the best API option suiting the specific needs of your business. With rich expertise in the Web3 project launch sphere, we can also conduct the API integration procedure from start to finish. Contact us today to get all APIs set up and ready to deliver an amazing customer experience to your users.

Who we are

4IRE Group is a strategic alliance between two leading companies, 4IRE and RNDpoint, specializing in FinTech, Banking, and Blockchain. With a team of over 300 professionals and 14 years of outstanding service, we are backed by prominent European investors.

Our extensive portfolio includes collaborations with over 50 corporate banks, such as Danske Bank, FAB, and Basis Bank.

250+ Completed projects

12+ Countries

15+ Trusted partners

3+ Delivery centers

16 Received awards

300 Team members

Industry leading clients:

ChromaWay, Rarible, NEAR, Polkadot, POLYMESH, HAIDRUN

Enteprise clients:

FAB, Danske Bank, FICO, teradata., jumio., BASISBANK, TBC BANK

Strartups:

CONVERGENCE, Ondo, loop

Learn more

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