Euronet QR Engine

Your next generation QR payments platform

Scan QR Code
Euronet Software
Align QR code to fill inside the frame
Scaning.......
PAY

Why QR Codes Matter As a Payment Method

QR codes have quickly emerged as one of the fastest-growing payment methods because they combine simplicity, accessibility, and security in a way that benefits both consumers and merchants. With smartphone penetration at an all-time high, customers no longer need to rely on cards or costly hardware to complete a transaction—scanning a QR code enables instant, contactless payments with just a phone. For financial institutions, offering a QR payments engine to their merchant customers presents a powerful opportunity to strengthen relationships, expand acceptance networks, and lower the cost of payment infrastructure. By equipping merchants with a solution that eliminates the need for traditional POS terminals, financial institutions can help them modernize customer experiences, improve transaction efficiency, and remain competitive in today's rapidly evolving digital payments landscape.

Additionally, QR payments open the door for financial institutions to tap into new revenue streams and deepen merchant loyalty. By providing a flexible, EMVCo-compliant QR solution, financial institutions position themselves as innovators who deliver cost-effective alternatives to card-based acquiring. This not only helps merchants attract a broader base of digital-savvy customers but also ensures that the bank stays at the center of the transaction ecosystem—capturing more payment volume, data insights, and long-term growth opportunities.

We build the solutions that move money in all the ways the world depends upon.

Euronet Software Solutions

www.euronetsoftware.com

Transforming Payments with Euronet's QR Engine

The Global Shift Toward QR Payments
Digital payments are accelerating at an unprecedented pace, fueled by rising smartphone penetration and ever-expanding internet access. The **global QR code payments market**, valued at **USD 12.54 billion in 2024**, is projected to reach **USD 61.73 billion by 2033**, growing at a **CAGR of 20%**. This rapid expansion *is not just a* **trend**—it is a fundamental shift in how consumers and merchants transact. For financial institutions, this presents both a challenge and an opportunity: to adapt quickly and capture growth in a market that is rewriting the rules of payments.

The Euronet QR Engine Advantage

Euronet's QR Engine is designed for this new era. It is a **secure, EMVCo-compliant, and cost-efficient platform** that allows financial institutions and their merchant partners to leapfrog traditional infrastructure. By **enabling instant payments through dynamic or static QR codes**, financial institutions can help merchants bypass costly POS hardware, while offering consumers a seamless, card-free experience.

For financial institutions, the EN QR Engine isn't just a technology upgrade—it's a strategic advantage.

How It Works: The EN QR Engine Ecosystem:

Bank Admin Portal

Gives bank administrators the ability to:
- Configure the QR payment system
- Onboard merchants quickly and securely
- Define and manage merchant discount rates (MDRs)

Consumer App

Empowers customers to:
- Register their cards in-app
- Scan QR codes and initiate instant payments
- View transaction history and receive real-time notifications
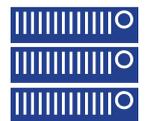- Manage disputes or complaints seamlessly

Merchant Portal & App

Empowers customers to:
- Generate static and dynamic QR codes instantly
- Accept and track payments in real time
- Manage customer complaints efficiently
- Receive notifications and payment confirmations instantly

Processing Engine

The powerhouse that enables issuers and acquirers to:
- Initiate and accept QR transactions
- Integrate seamlessly with switches and Core Banking Systems (CBS)
- Connect to global and national QR networks, including Visa and Mastercard

Back Office System

Supports bank operations with:
- Automated reconciliation between QR Engine, CBS, and payment networks
- Settlement, dispute management, and compliance reporting
- Real-time dashboards and actionable insights
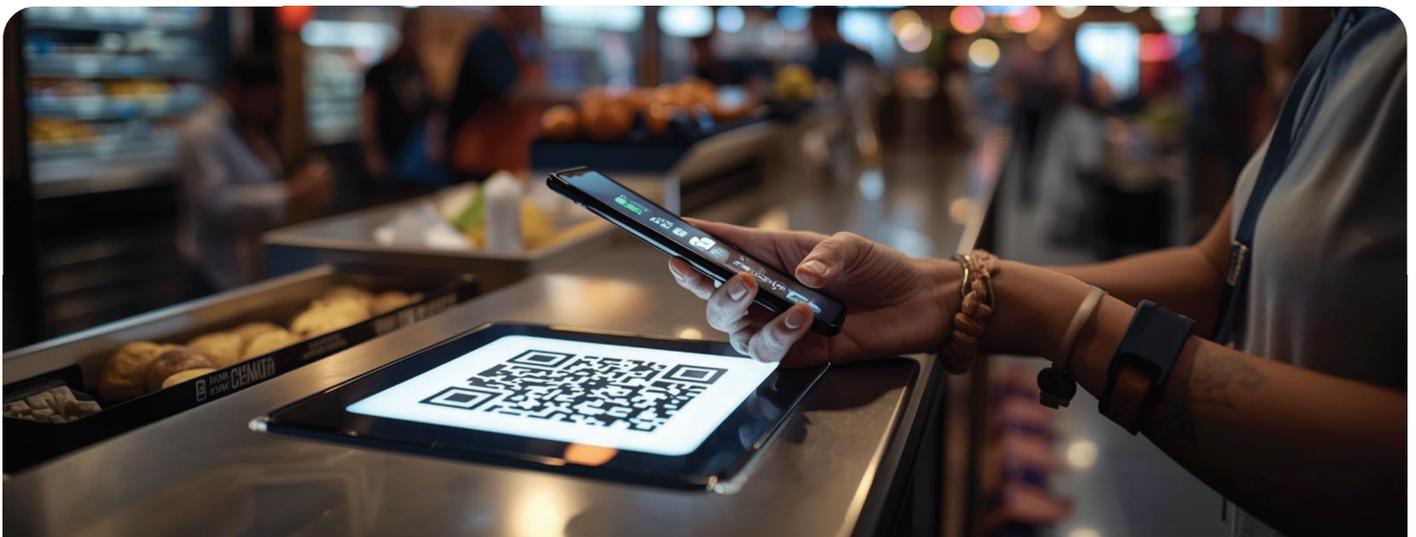
Features & Benefits

For Retail Customers

- White label mobile application, compliant with regulatory guidelines
- Interface with banking channels such as EFT switch, and others
- Scan and pay any EMVCo compliant QR code
- Register cards for one-time or multi-use
- SDK integration with existing mobile app

- Hassle-free secure instant payments
- Eliminate the need to carry cash or cards
- Peace of mind with authenticated transaction protection
- Greater security than cash or cards
- Fraud proof payment method

For Merchants

- White label merchant mobile app
- APIs to integrate with merchant's ERP, websites and other digital channels
- Mobile app SDK for deep linking
- Web application
- Transaction authenticated by customer bank before merchant credited

- Accept any EMVCo compliant payment
- Receive real-time credit
- Eliminate need for POS terminal or other physical payment device
- Fewer chargebacks
- Avoid duplicate payments
- No receipts or signatures needed

For Back Office

- Bank and merchant user role management
- Merchant retail chain configuration
- Customer management
- Transaction limit configuration
- Notification management

- Complaint management
- Reconcilliation, settlement, and dispute management
- Monitoring and Management Dashboard
- System Reporting

Euronet's QR Engine is:

Platform Independent & Secure

Developed using:
- Java and Micro Services architecture
- Open APIs using API Gateway
- Ionic, Angular, Bootstrap
- Rest, Spring MVC and Spring Boot

Euronet QR Engine:
Your easy to use, next-gen EMVCo compliant QR payments Solution.

- TLS for end-to-end communication
- PA-DSS and PCI-DSS compliant
- HSM encryption of sensitive data
- 2-factor authentication for transactions
- Secure registration using TOKEN
- Support for RSA DES, 3DES, PKI, and AES 256
- RSA Certificate-based message encryption
- SSL Pinning
- Binary obfuscation for PSP app APK
- Session management with session key
- VAPT for every application release

ABOUT US

Euronet Software is a global leader in financial technology, delivering modern, mission-critical software that powers the world's most complex and high-volume payments environments. As part of Euronet Worldwide—a company with millions of digital and physical touchpoints around the globe—our software division offers the technology backbone behind secure, scalable, and real-time financial services. With deep technical expertise and best practices, we drive innovation and efficiency for both clients and internal teams, helping businesses thrive in a fast-evolving digital landscape.

We don't follow tech trends. We create them.

WHAT WE DO

Products and services in more than 200 countries and territories around the globe served by offices in 64 countries.

An extensive global real-time digital and cash payments network that includes more than 57K installed ATMs.

A network of approximately 1.2M EFT POS terminals and a prepaid processing network of over 720K POS terminals.

A a global money transfer network of aover 631,000 locations with digital connections to 4.1B bank accounts, 3.2B digital wallet accounts.

Euronet Software Solutions

Contact Us

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