



indition Gift Cards

# Gift Cards

## Feature List

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### At a glance

The Gift Cards module (**Gift Cards** in the backend menu) is a self-contained system for designing, selling, issuing, and redeeming store gift cards. It handles the full lifecycle — from a visual card designer to checkout tender, mobile wallet passes, balance ledger accounting, and liability reporting — all within the Indition platform.

## Card Design & Templates

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- Visual canvas designer with landscape (1050×600), square (800×800), and portrait (700×980) layouts.
- 15 built-in seasonal/holiday templates: Classic, Refined, Celebration, Minimal, USA 250th Birthday, Christmas (three variants), Thanksgiving, Birthday (two variants), Mother's Day, Happy Holidays, and more.
- Custom template library: admins create artwork in the designer, save it, and register it as a reusable template with name, category, and sort order.
- Design controls: background color, accent color, text color, corner radius, logo upload, background image, QR code or barcode.
- Download saved design as PNG or PDF.
- One-click "Create Gift Card Product" from any saved design.

## Gift Card Products & Denominations

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- Dedicated `gift-cards` product type, fully integrated with the Shop product catalog.
- Each product links to one design and one value attribute group.
- Fixed denominations as sub-products, each with its own amount, label, SKU, and status.
- Code prefix per product (e.g., `MYSTORE-XXXX-XXXX-XXXX-XXXX`).
- Three expiry modes per product: **None** (no expiry), **Fixed date** (global expiry for all issued cards), **Relative** (N months and/or N days after purchase).
- Per-product flags: allow self-purchase, allow recipient send.
- Gallery images auto-generated from the linked design at product creation.

## Storefront Purchase Flow

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- Gift card products appear in standard Shop listing and gallery widgets scoped to the gift-cards type.
- Four CMS widgets: Gift Cards Listing, Gift Cards Filter, Gift Cards Gallery, Gift Cards Detail.
- Recipient details captured in the cart: first name, last name, email, optional personal message.
- Dual delivery modes: self-purchase (card immediately active) or gift to recipient (card held as *pending claim* until claimed by recipient).
- Expiry displayed on the product detail page in human-readable form.

## Card Issuance

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- Cards created at *pending payment* when order is placed; activated when payment is confirmed.
- Cryptographically secure 22-character card codes using an unambiguous alphabet (no O, 0, I, 1).
- Code stored hashed (SHA-256) for lookups; encrypted (AES) for recovery and display.
- Card image (PNG) rendered server-side via PHP GD at issuance and served via an HMAC-gated URL.
- Design snapshot frozen at issuance so the card image always reflects what the customer received.

## Claim Flow

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- Recipient receives an email with a claim link containing a 64-character cryptographically secure token.
- Claim link requires the recipient to log in (or create an account); new accounts are created automatically if needed.
- Claim transitions the card from *pending claim* to *active* and records the event in the ledger.
- Rate-limited: 10 claim attempts per 300 seconds per IP/session.

## Redemption at Checkout

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- Customers enter a card code in the cart to apply it as payment tender.
- Multiple cards can be combined with each other or with a credit card in a single checkout.

- Gift cards cannot be applied to a cart that already contains gift card purchase products (circular redemption prevention).
- *Allow Unlinked Card Entry* setting controls whether any code can be entered or only codes owned by the logged-in user.
- Rate-limited: 12 apply attempts per 300 seconds per IP/session.
- Redemption uses database row-locking ( `SELECT ... FOR UPDATE` ) to prevent double-spend.

## My Cards (Customer Portal)

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- Authenticated customers can view all their owned, active gift cards with current balances.
- Card image displayed (HMAC-gated URL).
- Add to Apple Wallet button (when Apple Wallet is enabled).
- Add to Google Wallet button (when Google Wallet is enabled).

## Apple Wallet Integration

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- Generates signed `.pkpass` (storeCard type) per card.
- Pass shows: Current Balance (primary), Card last 4 + Status (secondary), Original Value + Expiry (auxiliary), Message + claim link (back fields).
- QR code on the pass links to the claim/card page.
- Cross-device flow: customer views a QR code in browser; phone scans it to download the pass without a login session (HMAC-signed, 10-minute expiry).
- Pass signed with PKCS7 using dealer's Apple certificate, private key, and WWDR certificate.
- Configurable: background color, foreground color, label color, logo PNG.

## Google Wallet Integration

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- Generates RS256-signed JWT for a Google Generic Pass.
- Pass shows: Balance, Status, Expiry, QR code.
- Customer is redirected to `https://pay.google.com/gp/v/save/{jwt}` to save the pass.
- Configurable: background color, logo PNG (or reuse Apple logo).
- Credentials via Google service account JSON file.

## Admin — Issued Cards Grid

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- Full-featured admin grid with configurable page sizes (50–1000 rows).
- Columns: Code (masked \*\*\*\*XXXX), Product, Original Value, Current Balance, Status, Purchaser, Owner, Recipient, Expiry, Issue Date.
- Filters: code last 4, product, purchaser email, owner email, recipient email, status, expiry date range, issue date range.
- Per-row actions: View Ledger, Resend Claim Email, Adjust Balance, Expire, Void, View Apple/Google Wallet pass.

## Admin — Balance Ledger

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- Immutable, append-only audit log of every balance event.
- Entry types: Issue, Claim, Redeem, Refund, Adjust, Expire, Void.
- Each entry records: signed delta amount, resulting balance, linked order, actor user, note, timestamp.
- Filterable by card code, entry type, order, actor, date range.

## Admin — Liability Report

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- Aggregated view grouped by status and product.
- Columns: Status, Product, Card Count, Issued Value, Redeemed / Used, Outstanding Liability.
- Footer totals row.
- Filterable by status and issue date range.

## Refund & Cancellation Integration

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- When an order with gift card tender is fully cancelled, admins choose how to restore balances:
  - Original split** — restore proportionally to the cards originally used.
  - Gift cards only** — all refundable value returns to gift cards (even if a credit card was also used).
  - Manual** — admin specifies per-card restore amounts.
- Same three modes for partial refunds (proportional, gift-cards-only, manual).
- If a card was voided since the order, its share is redistributed to remaining live cards.

- Restoring balance to an expired card requires the admin to set a new expiry date first.

## Email Notifications

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- **Gift card purchase confirmation** — sent to the purchaser with the card image.
- **Gift card delivery (existing account)** — sent to the recipient with the claim link and card image.
- **Gift card delivery (new account)** — same as above, includes auto-generated credentials for the new account.
- **New gift card order — customer** — standard order confirmation for a gift card purchase.
- **New gift card order — dealer** — dealer notification when a gift card order is placed.
- Resend claim email: admin action available for any pending-claim card.

## Security

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- Card codes and claim tokens generated with PHP CSPRNG ( `random_int` , `random_bytes` ).
- Codes and tokens stored only as SHA-256 hashes (for lookup) + AES ciphertext (for recovery).
- Admin grids show only the last 4 digits of any code.
- HMAC-gated card image URLs; HMAC-signed, time-limited wallet pass tokens.
- Database row-locking during redemption prevents double-spend.
- Rate limiting on apply and claim endpoints.
- All state-changing admin actions require HTTP POST.
- Wallet credential files restricted to a designated protected directory; path traversal rejected.
- Logo uploads validated: PNG only, max 1 MB, max 1024×1024 px.

## Payment & Accounting Integration

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- Gift card tender recorded as `PaymentTransaction` rows with `gateway = 'gift_card'`.
- `shop_order_gift_card` table records per-order, per-card redemption amounts.
- Balance changes always accompanied by a ledger entry for full auditability.
- Liability report provides outstanding balance data for financial reporting.

## Module Settings

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| Setting                         | Effect                                                                    |
|---------------------------------|---------------------------------------------------------------------------|
| Module Enabled                  | Master on/off; hides all GiftCards menus when off                         |
| Allow Unlinked Card Entry       | When on, any customer can enter any card code; when off, only owned cards |
| Default Gift Card Message       | Pre-filled message template with placeholders                             |
| Apple Wallet Enabled            | Shows/hides Apple Wallet buttons and settings                             |
| Google Wallet Enabled           | Shows/hides Google Wallet buttons and settings                            |
| Apple / Google credential paths | Certificate, key, service account JSON (resolved within protected/wallet) |
| Wallet colors & logos           | Per-provider branding for pass display                                    |

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