

barcode_label

version

BoostMyShop

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barcode_label

1. Overview / Requirements

Introduction

Sometimes, your products don't have barcode / EAN.

Barcode Label generates a barcode / EAN for each of your products and saves it in an attribute.

This extension also allows you to print labels for your products.

You can customize many label settings like :

- Its size
- The information you want to print on it (sku, name, barcode, price, manufacturer, logo, ...)
- Choose a simple layout or A4 label pages

Once the label layout is designed, Barcode Label offers several ways to print labels :

- From the product grid to print many labels at once
- From configurable products to print labels for every combination
- From the product sheet to select how many labels to print

Compatibility

Barcode Label is compatible with any printer : thermal or laser.

Available barcode standards

- Code25
- Code25interleaved
- Code39
- Code128
- EAN-2
- EAN-5
- EAN-8
- EAN-13
- Itf14
- Leitcode
- Planet
- Postnet
- Royalmail
- UPCA
- Upce

Requirements

This extension requires the following elements :

- Magento version > 1.4.1.1

2. Installation / Upgrade

Note

Zend_Barcode library is not available under Magento version 1.4.2.0

- GD2 PHP Library or higher version, with the FreeType library included inside.

2. Installation / Upgrade

Warning

Before uploading any file, enable Magento caches (System > Cache Management), this will prevent Magento from installing this extension as long as all files aren't uploaded.

If you have any : APC cache, Memcache or Redis cache, please disable them.

Finally, make sure Magento's compilation (System > Tools > Compilation) is disabled.

Upload

First, upload the extension file structure to your server on the same file structure provided by Magento :

The screenshot shows a file manager interface with a local site on the left and a remote site on the right. The local site contains folders for 'idea', 'app', and 'media'. The remote site contains a complex directory structure including folders like 'idea', 'app', 'carrier_templates', 'dev', 'documentation', 'downloader', 'errors', 'includes', 'js', 'lib', 'media', 'patches', 'resources', 'scripts', 'shell', 'skin', 'var' and files like 'htaccess.sample', 'api.php', 'cron.php', 'cron.sh', 'favicon.ico', 'get.php', 'index.php', 'index.php.sample', 'LICENSE.html', 'LICENSE.txt', and 'LICENSE_AFL.txt'. A red box highlights the 'idea', 'app', and 'media' folders in the local site, and a red arrow points from this box to the corresponding 'idea', 'app', and 'media' folders in the remote site. The status bar at the bottom shows 'Queued files', 'Failed transfers', and 'Successful transfers (35)'. The 'Queue empty' indicator is also visible.

Make sure all the files have been correctly transferred (Have a look at the tabs framed in black on the previous picture), you shouldn't have any "Failed transfers".

Note

No code files will be erase by this extension.

All the extension's code files will be available into `app/code/community/MDN` .

Once all files are uploaded, please follow these 2 steps to make sure it's correctly installed:

1. Refresh Magento caches (System > Cache Management).

3. Configuration

Note

If you get an error message at this stage, that means Barcode Label is not correctly installed.
Try to upload all extension files again.

2. Logout and login yourself from Magento's back office.
Barcode Label is now correctly installed.

Note

If you want to disable the extension :

1. Edit the file `MDN_BarcodeLabel.xml` in `app/etc/modules`.
2. Replace True by False.
3. Refresh caches (System > Cache Management).

Create barcode attribute

First, go to Catalog > Attributes > Manage Attributes and click on [Add new attribute]

Put these settings for your attribute :

Attribute Properties	
Attribute Code *	<input type="text" value="barcode"/> <small>▲ For internal use. Must be unique with no spaces. Maximum length of attribute code must be less then 30 symbols</small>
Scope	<input type="text" value="Global"/> ▼ <small>▲ Declare attribute value saving scope</small>
Catalog Input Type for Store Owner	<input type="text" value="Text Field"/> ▼
Default Value	<input type="text"/>
Unique Value	<input type="text" value="Yes"/> ▼ <small>▲ Not shared with other products</small>
Values Required	<input type="text" value="No"/> ▼
Input Validation for Store Owner	<input type="text" value="None"/> ▼
Apply To *	<input type="text" value="All Product Types"/> ▼

When it's done, click on [Save] and then go to Catalog > Attributes > Manage attributes sets

For each attribute set, drag and drop barcode attribute from Unassigned attributes to Groups list (in General directory)

Click on [Save], and then refresh your Magento indexes (System > Index Management)

3. Configuration

3. Configuration

To configure Barcode Label, go to [System > Configuration](#), and then [Catalog > Barcode Label](#).

Note

If you get an "Access denied" message, logout and login yourself from the admin panel to reset permissions.

Version

Version			
Version	2.2	Online Documentation	[STORE VIEW]

In this panel, you can see what's your actual version of Barcode Label.

Note

To check if your version is up to date, go to [System > Configuration](#), and then [My BMS > My Extensions](#).

General

General		
Barcode attribute	<input type="text" value="barcode"/> [v]	[GLOBAL]
	▲ Select attribute to store generated barcode. If you dont have such attribute, you must create it	
Generation method	<input type="text" value="Random"/> [v]	[GLOBAL]
	▲ Select if the system should generate barcode randomly or using a predefined list	
Standard for barcode generation	<input type="text" value="Code 128"/> [v]	[GLOBAL]
	▲ when clicking on 'Print' button in product view	
Enable barcode generation	<input type="text" value="Yes"/> [v]	[GLOBAL]
	▲ If enabled, a barcode will be generated for new products	
Manage predefined list	Barcode count : 0 Available : 0 <input type="button" value="Manage list"/>	[GLOBAL]
	▲ Click here to manage predefined barcodes list	
Generate barcodes for all products	<input type="button" value="Generate barcodes"/>	[GLOBAL]
	▲ Click on this button after first installation to initialize barcodes for all products where barcode attribute is empty	
Export	<input type="button" value="Export"/>	[GLOBAL]
	▲ Export barcode / sku / product name to a csv file	

Barcode attribute : Select the barcode attribute created previously : [Barcode attribute creation](#).

3. Configuration

Generation method : If you have a predefined list of barcodes to use, select "Predefined List" option, otherwise, use "Random" option.

Standard for barcode generation : Select the standard to use for barcode generation.

Enable barcode generation : This option generates a new barcode at each product creation.

Manage predefined list : If you already have a predefined list of barcodes, you can manage it by clicking on [Manage list].

Generate barcodes for all products : Affect a barcode to all existing products who don't have one.

Export : Generates a CSV file who contains the informations of all products (barcode / sku / products name).

Preview

In this panel, you can select a product ID to see its label preview.

PDF settings

Pdf settings		
Row count per page	<input type="text" value="1"/> ▲ 0 for no limit	[GLOBAL]
Labels per row	<input type="text" value="1"/>	[GLOBAL]
Paper height	<input type="text" value="3.5"/> ▲ cm (0 for no limit)	[GLOBAL]
Paper width	<input type="text" value="8"/> ▲ cm	[GLOBAL]
Top margin	<input type="text" value="0"/> ▲ cm	[GLOBAL]
Left margin	<input type="text" value="0"/> ▲ cm	[GLOBAL]
Right margin	<input type="text" value="0"/> ▲ cm	[GLOBAL]
Bottom margin	<input type="text" value="0"/> ▲ cm	[GLOBAL]
Space between rows	<input type="text" value="0"/> ▲ cm	[GLOBAL]
Space between columns	<input type="text" value="0"/> ▲ cm	[GLOBAL]

Row count per page : Number of row per page.

Labels per row : Number of label per row.

Paper height : Label height (cm).

Paper width : Label width (cm).

Top margin : Margin between the top of the page and the first label row.

Left margin : Margin between the left of the page and the first label column.

Right margin : Margin between the right of the page and the last label column.

3. Configuration

Bottom margin : Margin between the bottom of the page and the last label row.

Space between rows : Space between two rows of labels.

Space between columns : Space between two columns of labels.

Label

Label		
Font name	<input type="text" value="LinLibertineC_Re-2.8.0.ttf"/>	[GLOBAL]
	<small>▲ Font file name in media/font</small>	
Draw border	<input type="text" value="No"/>	[GLOBAL]

Font name : Font used on label.

Draw border : Draws a black border around the label.

Note

How to change the font ?

To change it, upload a new TTF file on your FTP in the directory `/media/font`.

Then, you have to fill the "Font name" field with the exact name of your new font file (for example: `file_name.ttf`)

Label - Barcode

Label - Barcode		
Print on label	<input type="text" value="Yes"/>	[GLOBAL]
Position	<input type="text" value="0.3, 0.8"/>	[GLOBAL]
	<small>▲ X,Y</small>	
Height	<input type="text" value="2"/>	[GLOBAL]
	<small>▲ the barcode height</small>	

Print on label : Display or not the barcode on the label.

Position : Set barcode position (X,Y) on label.

Height : Set barcode height (cm).

Note

How works Position field ?

The first value is an absciss (X value), the second value is an ordinate (Y value)

(0,0) represent top left corner position.



Product - Image

Product - Image		
Print on label	<input type="text" value="No"/>	[GLOBAL]
	<small>▲ .jpeg or .jpg or .png only</small>	
Position and size	<input type="text" value="0.1 , 1.2, 1, 1"/>	[GLOBAL]
	<small>▲ X,Y,Width,Height</small>	

Print on label : Display or not the product image on the label.

Position and size : Set image position (X,Y) and image size (Width, Height) on the label.

Label - Price

Label - Price		
Print on label	<input type="text" value="No"/>	[GLOBAL]
Print Special Price	<input type="text" value="No"/>	[GLOBAL]
Position and size	<input type="text" value="3.5 , 0.6, 0, 0"/>	[GLOBAL]
	<small>▲ X,Y,Width,Height</small>	
Font size	<input type="text" value="11"/>	[GLOBAL]
Currency	<input type="text" value="Euro"/>	[GLOBAL]
Tax rate	<input type="text" value="0.0"/>	[GLOBAL]
	<small>▲ the rate will be considerate like a percentage value</small>	

Print on label : Display or not the product price on the label.

Print Special Price : Use Magento special_price attribute instead of price attribute.

Position and size : Set position (X,Y) and size (Width, Height) of the price on the label.


Font size : Choose the value of the price font size on the label.

Currency : Select the price currency.

Tax Rate : Add a tax rate on the price value (%).

3. Configuration

Label - Logo

Label - Logo		
Print on label	<input type="text" value="No"/>	[GLOBAL]
Logo	 <input type="button" value="Parcourir..."/> Aucun fichier sélectionné. <input type="checkbox"/> Delete Image ▲ .jpeg or .jpg or .png only	[GLOBAL]
Position and size	<input type="text" value="0.1 , 0.8, 1, 1"/> ▲ X,Y,Width,Height	[GLOBAL]

Print on label : Display or not the logo on the label.

Logo : Upload your logo.

Note

Check the Delete Image box and save in order to remove your logo.

Position and size : Set position (X,Y) and size (Width, Height) of the logo on the label.

Label - Product Sku, Product Name & Manufacturer

Label - Product Sku		
Print on label	<input type="text" value="Yes"/>	[GLOBAL]
Font size	<input type="text" value="11"/>	[GLOBAL]
Position and size	<input type="text" value="0, 0.4, 2, 0"/> ▲ X,Y,Width,Height	[GLOBAL]

Label - Product Name		
Print on label	<input type="text" value="Yes"/>	[GLOBAL]
Font size	<input type="text" value="11"/>	[GLOBAL]
Position and size	<input type="text" value="0 , 0.1, 3, 0"/> ▲ X,Y,Width,Height	[GLOBAL]

Label - Manufacturer		
Print on label	<input type="text" value="No"/>	[GLOBAL]
Manufacturer attribute	<input type="text" value="manufacturer"/>	[GLOBAL]
Position and size	<input type="text" value="2.1 , 0.3, 2, 0"/> ▲ X,Y,Width,Height	[GLOBAL]
Font size	<input type="text" value="11"/>	[GLOBAL]

Print on label : Display or not values on the label.

4. Label printing methods

Position and size : Set values position (X,Y) and values size (Width, Height) on the label.

Font size : Choose the value of the font size on the label.

Custom Attributes

These panels of configuration allow to print other Magento attributes on label.

Note

The attribute type must be "Text" and Attribute Scope "Global"

Custom 1		
Font size	<input type="text" value="9"/>	[GLOBAL]
Content	<input type="text" value="{weight}"/> <small>▲ Use {attribute_code}</small>	[GLOBAL]
Print on label	<input type="text" value="No"/>	[GLOBAL]
Position and size	<input type="text" value="0,0,0,0"/> <small>▲ X,Y,Width,Height</small>	[GLOBAL]

Custom 2
Custom 3

Font size : Choose value of the font size on the label.

Content : Put the Magento attribute_code in brackets.

Print on label : Display or not the values on the label.

Position and size : Set attribute position (X,Y) and attribute size (Width, Height)

4. Label printing methods

From product sheet

4. Label printing methods

Choose Store View:
Default Values

Product Information

- General
- Prices
- Meta Information
- Descriptions
- Images
- Cell Phone Attributes
- Design
- Recurring Profile
- Gift Options
- Inventory
- Websites
- Categories
- Related Products
- Up-sells
- Cross-sells
- Custom Options
- Barcode Label**

Nokia 2610 Phone (Cell Phones)

Label preview



Print labels

Label count

Print

To print a label from the product sheet, first click on "Barcode Label" in the Product Information menu. In the Label preview section, you can see how your label will look like when its printed.

Note

To customize the label layout, check [Barcode Label - Configuration](#).

Fill how many labels you want to print in the "Label count" field and click on [Print].

Note

If your current product is a configurable product, you will not be able to set the "Label count" field :
The system will print as many labels as there are available products associated with the configurable product, adding their stock level for the number of label to print.

From product list

You can also print several labels from the product list : [Catalog](#) > [Manage products](#)

To do that, check all the products for which you want to print labels in the product list, and then select "Print barcode labels" in the "actions" drop-down menu.

Finally, click on [Submit] to generate a PDF document with all the labels to print.

Note

This method will print as many labels as the products quantity.

5. Use of an existing list of barcodes

You can use your own list of barcode for the barcode generation, for example if you already have a GS1 barcode list.

For that, you will need a text file which contains all barcodes, structured in this way :

```
Barcode1
Barcode2
Barcode3
...
BarcodeN
```

Once your barcode file is done, go to `System > Configuration > Barcode label`, then open the "General" panel and click on `[Manage list]`.

You should now have a barcodes list screen, like that:

Id	Barcode
1	123456798
6	142753869
3	147258369
5	326159487
4	963852741
2	987654321

To import a list of barcode, click on `[Select a file]` in the upper right corner and choose your file.

There are two import modes :

- **Append** : The new list of barcode will be added to the one who already exist.
- **Replace** : Replace the existing list by the new one.

Once you have selected your barcode list and choosen the import mode, click on `[Import file]`.

Then, return on `System > Configuration > Barcode label` and open the General panel to find this option :

Generation method: **Random** [GLOBAL]
▲ Select if the system should generate barcode randomly or using a predefined list

This is the "Generation method" option, which defines how barcodes will be generated when you create a new product.

This option have two modes :

- **Random** : Generates a random barcode using the product id.
- **Predefined List** : Use barcode from a barcode file.

So if you want to use your own barcode list, choose "Predefined list" as Generation method.

When Barcode label will generate a barcode for a new product it will use the id1, then the id2...

6. FAQ

I only get the barcode into the printed label even if I set the name option to yes

- Try to upload the folder `/media` into the root FTP directory, make it readable and executable (644).

I have an error message : "Cannot create image resource. File not found."

- Check your Magento version. This extension requires Magento > 1.4.1.0.
- Check the rights in the folder `/var` (change it to 755).

5. Use of an existing list of barcodes

- Maybe your GD PHP Library version isn't allowing the creation of image. This extension requires GD2 PHP Library or higher.

When I try to print a lot of labels from the product list, I get a timeout message and crashes

- If you try to print too much labels at the same time, the page will crash.
- The solution is, if you need to print more than 100 labels at the same time for example, to print them 50 by 50 by going into the product page directly.

When I go on the page : System > Configuration > Barcode label, I get a white screen or an error message

Note

Fatal error : Class 'Mage_BarcodeLabel_Helper_Data' not found in /home/wwwroot/www.yourwebsite.com/app/Mage.php on line 546.

- This error comes from the FTP account you use, which doesn't grant the execution rights. To fix that get the "root" FTP account, and upload again the extension's files with this account.

I only get one PDF page when I try to print a lot of barcodes even if I have selected multiple articles

- The Barcode label extension will pick up the product stock quantity as the number of labels to print.
- If your product didn't manage stock or get a zero stock level, the label will not be printed.

My Code 39 barcode is unreadable with a label size of 5cm per 3cm

- Set the PDF size in Configuration > PDF settings with the double size of the previous label (here 10x6cm instead of 5x3cm)
- Then ask on [BoostMyShop Support](#) for an edit of the extension's code to resize the final PDF at the desired size.

Note

The label size ratio must be kepted (for example : 5 per 3 > 10 per 6) to keep the barcode readable.

Can the system generates barcodes

This function can be activated from the [Configuration page](#).

The automatic generation will run like the following :

1. Get the product ID. Example : 166.
2. Add as many zero as necessary before the product ID to make a 12 characters barcode. Example : 00000000166
3. Add a last "checksum" character. Example : 000000001668

Does Barcode Label manages Magento Custom Options ?

7. Recommended hardware

No, at the moment only Product attributes are managed, Custom Options can't be used in Barcode label extension.

Error message : General error 1267

General error : 1267 Illegal mix of collations (utf8_unicode_ci,IMPLICIT) and (utf8_general_ci,IMPLICIT) for operation '=', query was: select bll_barcode from barcode_label_list where bll_barcode not in (select value from catalog_product_entity_varchar)

- You must change the collation field in your SQL database into the table `barcode_label_list > bll_barcode` to `utf8_unicode_ci`.

Note

Here is the SQL command to do this :

```
ALTER TABLE `barcode_label_list` CHANGE `bll_barcode` `bll_barcode` VARCHAR( 50 ) CHARACTER SET utf8 COLLATE utf8_unicode_ci NOT NULL
```

Error message : Unknown column attribute_id in where clause

SQLSTATE[42S22] : Column not found : 1054 Unknown column 'attribute_id' in 'where clause'...

- The Barcode attribute is probably empty in the [Barcode label configuration](#).

Error message : Call to a member function getSource() on a non-object

Fatal error: Call to a member function getSource() on a non-object in...

- Maybe the "Manufacturer" attribute is not available on your Magento, you must create it.
- Try to disable all printed information except "Barcode" to find which one is making a problem.

Error message : Undefined function imagettfbbox()

Fatal error: Call to undefined function imagettfbbox()

- Check your PHP version, the function `imagettfbbox` requires PHP4 or upper.
- Maybe your GD PHP Library version isn't allowing the creation of image. This extension requires GD2 PHP Library or higher.
- FreeType must be activated.

7. Recommended hardware

There is different types of barcode scanners, more or less powerful and expensive.

Barcode label will work with every scanner which add a "carriage return" at the end of the readed barcode.

Note

Make sure that the barcode scanner you choose can read the 0 character as first number.

The choice you will make depends of your needs.

Here are some scanners we tested and we can recommend, classified by ranges :

Low-end scanners

7. Recommended hardware

Esky USB Automatic Handheld Barcode Scanner

- **Performances** : Low performances
- **Price** : Around 15-30 (€ / \$)
- **Mobility** : Restricted mobility (cable connection)

Esky ES013 Bluetooth Barcode Scanner

- **Performances** : Low performances
- **Price** : Around 30-50 (€ / \$)
- **Mobility** : Good mobility (a few meters around the computer, as far as bluetooth range allows)

Mid-level scanners

Gryphon Series Scanners

- **Performances** : Good performances
- **Price** : Around 150-300 (€ / \$)
- **Mobility** : Restricted mobility (cable connection)

Performances : Ability to read barcodes more or less easily (depends of lighting of the place, distance from which barcodes are scanned, barcodes size ...)

Note

We do not guarantee that all these scanners will work with your product barcodes, because of course we are not sellers of scanners.

Also, we don't recommend the use of scanners with on-board screen for this extension, because they are not supposed to work in association with a computer.