

# BarcodeX.NET component

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*By Fath Software*

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## Introduction

BarcodeX.NET package contains WinForm control and WebForm component.

It can be used to create barcodes on your forms, web pages, stream barcode images to web clients, generate barcode image files, etc.

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You can send E-mail to technical support via the Internet. Messages should be addressed to [support@fathsoft.com](mailto:support@fathsoft.com) .

### World Wide Web

The Fath Software web site is located at <http://www.fathsoft.com> . You can access our web site for up-to-date information about the product, support forum, knowledgebase and news.

## Developer's Guide

### Adding BarcodeX to your toolbox

Follow the steps below to add the Fath BarcodeX Component the toolbox in VS.NET.

1. Right-click on the toolbox and select Customize Toolbox.
2. Select the .NET Framework Components table from the Customize Toolbox dialog box that appears.
3. Find and check BarcodeX component. If you don't see it in the list, click 'Browse' and find BarcodeX.dll file in BarcodeX installation folder.
4. Press the OK button.
5. A BarcodeX item will now appear in your toolbox.

### Supported barcode symbologies

Code 128	Full ASCII-Character set with Code128 ABC auto-selection
Code 128A	Char Set A: Capital letters and special characters
Code 128B	Char Set B: Letters in upper and lower case
Code 128C	Char Set C: Optimized for numbers
EAN 128	Special form of the Code 128 also known as UCC/EAN 128
EAN 13	European-Article-Number with 13 digits
EAN 8	European-Article-Number with only 8 digits
EAN 5	Add on price code for ISBN
EAN 2	Add on found on newspapers
ISBN	International Standard Book Number
ISSN	International Standard Serial Number
UPC A	Universal Product Code with 12 digits
UPC E	Universal Product Code with 6 digits
Code 39	Also known as Code 3 of 9. Digits, uppercase letters and <code>_.*\$/+%</code>
Code 39 Extended	Full ASCII-Character set. Also known as Code 3 of 9 Extended.
Codebar	Numeric code. Often used on medical equipment.
Code 2 of 5	Numeric only code.
Interleaved 2 of 5	Numeric only code. Compact.

POSTNet	Numeric only code. Used by post offices.
Post 2/5	Numeric only code. Flavor of Interleave 2 of 5. Also known as Identcode or Leitcode.
Code93	Full ASCII-Character set.
Plessey	Digits and letters A to F.
MSI Plessey	Digits only.
Code11	Digits and '-'
DataMatrix	2-D full-ASCII barcode
PDF417	2-D full-ASCII barcode

## Drawing a barcode on a form

### Add a reference to BarcodeX.NET

- In your project browser windows, right click on “References” and choose “Add reference” option.
- Click on “Browse” tab and find/select BarcodeX.DLL file.

### Edit project license file

If you use components that are drawn on a form from the toolbox, Visual Studio will automatically add the license information to your project. If you use a pure class library such as CBarcodeX, you need to add a license explicitly. These licensed classes are specified in your project using a file called licenses.licx .

To add a license to your project:

1. Right-click on your project in solution explorer and choose “Add -> New Item”
2. Select a “Text file” and name it “licenses.lics”
3. Add a line to the licenses.lics:  
`Fath.BarcodeX`

The next time you build your project, Visual Studio will extract the runtime license key and embed it into the executable.

### Rendering the barcode

Simply drag & drop BarcodeX control from the toolbox to your form. The barcode will be displayed immediately. You can set barcode type, data and title properties in design view or in the code.

### Printing barcodes

To print a barcode, add this code to your “PrintDocument\_PrintPage” event handler:

```
e.Graphics.DrawImage(BarcodeX1.Image(WidthInches * e.Graphics.DpiX, HeightInches *  
e.Graphics.DpiY), rc)
```

For a complete sample code, see VB.NET sample in BarcodeX “samples” folder.

## Saving barcode to a file

To create a bitmap image file with BarcodeX control on a form, use this code:

```
SaveFileDialog1.Title = "Save barcode image as..."  
SaveFileDialog1.Filter = "BMP files|*.bmp|PNG files|*.png|TIF files|*.tif|All files|*.*"  
If (SaveFileDialog1.ShowDialog() = DialogResult.OK) Then  
    BarcodeX1.Image(BarcodeX1.Width, BarcodeX1.Height).Save(SaveFileDialog1.FileName)  
End If
```

## Barcodes in web pages

For web page usage, you need to copy “bcx.aspx” page from BarcodeX.NET program folder into your web application folder. After that, simply drag&drop WebBarcodeX server control on your ASP.NET page and set properties as for any other control.

The image will be dynamically generated by bcx.aspx and streamed directly from server memory to web client.



## Reference

### Properties

BackColor	Back color of the barcode.
Data	Data string to encode.
Font	Font of the barcode.
ForeColor	Foreground color of the barcode.
Orientation	Get / set barcode rotation angle in degrees.
ShowText	Sets or retrieves a value that determines whether or not the BarcodeX component displays human readable text.
Symbology	Barcode type to generate
Title	Title text above the barcode

### Methods

GetCheckDigit	Returns automatically computed check digit (if any, since, some barcode symbologies don't have check digits).
GetMinimalWidth	Returns minimal number of pixels required to draw a barcode in.
Image	Generate System.Drawing.Image bitmap of barcode.