

MageArray

User Guide

Formula Based Custom Pricing



Extension Version - 1.0.8

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Introduction

This extension provides pricing for your products having complex pricing structure which depends on some mathematical formula. For more information about this extension please visit MageArray.com

Installation

- Backup your web directory and store database
- Download extension installation package
- Upload contents of the extension installation package to your "**app/code/MageArray/Formulaprice**", directory
- Then run commands "**php bin/magento setup:upgrade**" using SSH from your magento root directory

Usage

Admin

General Configuration

To configure the Formula based custom pricing Extension for Magento, navigate to **Stores >> Settings >> Configuration >> MageArray Extensions >> Formula Price** or **MageArray Extensions >> Formula Price >> Settings**.

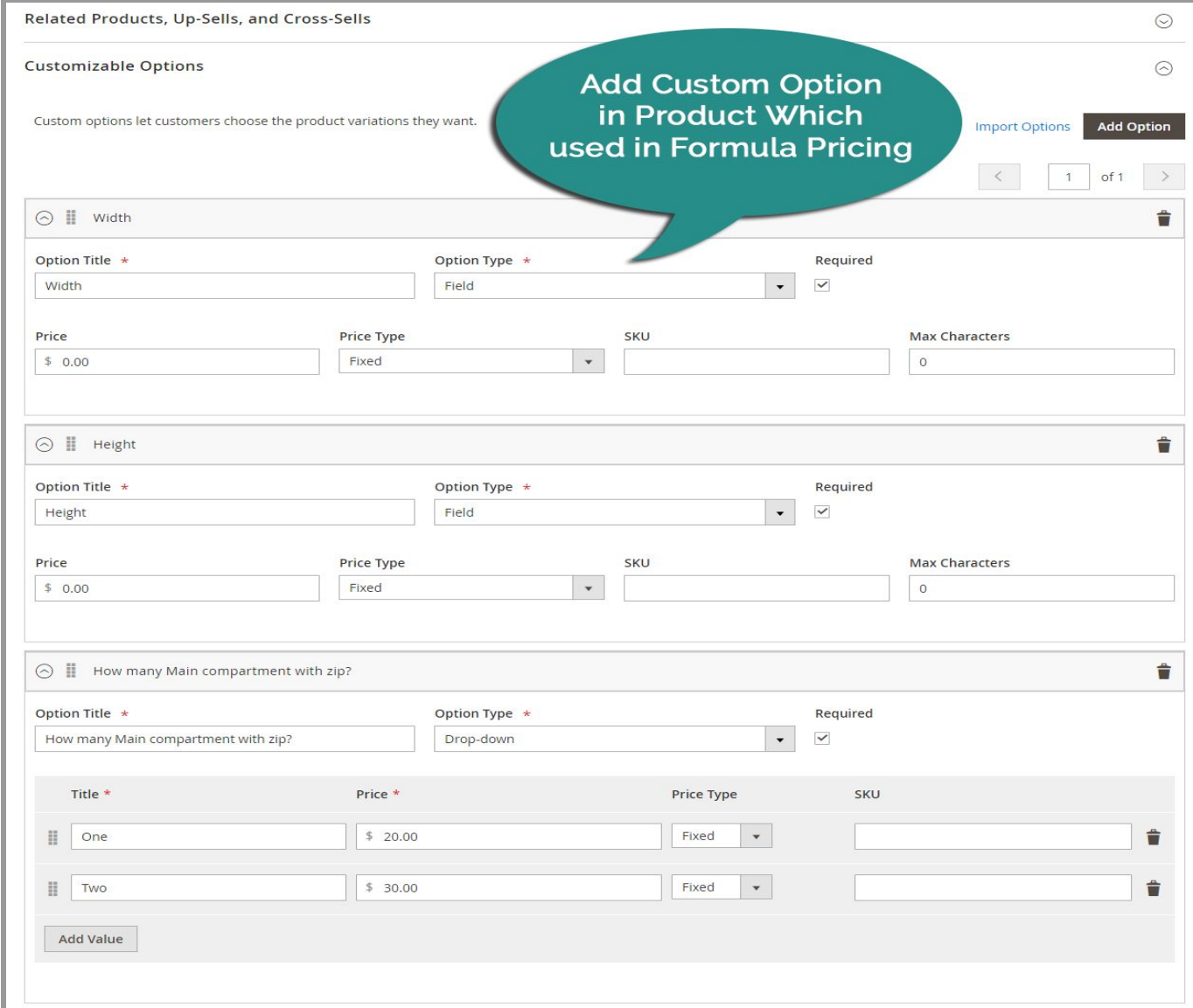
The screenshot shows the 'Configuration' page in the Magento Admin interface. The 'Store View' is set to 'Default Config'. The 'MageArray Extensions' section is expanded to show 'Formula Price'. The 'Enable Extension' and 'Enable Qty Change' options are both set to 'Yes'. A teal speech bubble highlights the 'System Config for Formula Pricing' section.

Formula Price

- **Enable Extension** - You can enable/disable extension.
- **Enable Qty Change** - Customer/Guest can see final price (Multiply with total qty) of product on product page.
Note: this feature works only when you add formula in product.

Custom Option in Product Page

Here, you have to add custom option in particular product where you want to use in formula.



Related Products, Up-Sells, and Cross-Sells

Customizable Options

Custom options let customers choose the product variations they want.

Import Options **Add Option**

1 of 1

Width

Option Title * Option Type * Required

Price Price Type SKU Max Characters

Height

Option Title * Option Type * Required

Price Price Type SKU Max Characters

How many Main compartment with zip?

Option Title * Option Type * Required

Title *	Price *	Price Type	SKU
<input type="text" value="One"/>	<input type="text" value="\$ 20.00"/>	<input type="text" value="Fixed"/>	<input type="text"/>
<input type="text" value="Two"/>	<input type="text" value="\$ 30.00"/>	<input type="text" value="Fixed"/>	<input type="text"/>

Add Value

[\(Click To view Large Image\)](#)

Type

Option Title * Type
Option Type * Radio Buttons
Required

Title *	Price *	Price Type	SKU
Backpack	\$ 5.00	Fixed	
Laptop	\$ 5.00	Fixed	

Add Value

Pocket

Option Title * Pocket
Option Type * Multiple Select
Required

Title *	Price *	Price Type	SKU
Zip	\$ 15.00	Fixed	
Stash	\$ 15.00	Fixed	

Add Value

Use Color

Option Title * Use Color
Option Type * Checkbox
Required

Title *	Price *	Price Type	SKU
Black	\$ 10.00	Fixed	
White	\$ 15.00	Fixed	
Blue	\$ 20.00	Fixed	
Navy	\$ 25.00	Fixed	

Add Value

[\(Click To view Large Image\)](#)

Formula Price Tab in Product page

Here, If you want to add formula in particular product then in admin go to product edit page and add it in formula tab.

Note: Price will be change on qty or custom option change and works with simple products only.

Formula Price

Enable Formula Price [global] Yes
Activate module for this product

Final Equation for Price [global]
{area}+{col}+round({fixed_surcharge})+{Main compartment}+{Pocket}+{Type}

Example : {area}*{price}+{fixed_surcharge}+{extra}

Assign Variable to Custom Option Title [global]
Width=>wid;Use Color=>col;How many Main compartment with zip?=>Main compartment

Example : Width=>wid;Length=>len

Assign Variable to Custom Option Value [global]
{Two}=>22;{Backpack}=>10;

Example : {Red}=>10;{Black}=>5;{Blue}=>12;{White}=>12

Static Variables For Equation [global]
fixed_surcharge=>1.10

Example : fixed_surcharge=>10;extra=>2

Add/Create Formulas Based on your Requirements

Static Variables (Formula Based) For Equation <small>[global]</small>	<input type="text" value="area=>{wid}*{Height}"/>
	Example : area=>{wid}*{len}
Extra Price Formula (Discount / Upcharge) <small>[global]</small>	<input type="text" value="({Height}>=50)=>-({newprice}*0.5/100)"/>
	Example : ({wid}>=10 && {len}<=10)=>-({newprice}*0.5/100)+{extra}
Min Input Setting <small>[global]</small>	<input type="text" value="wid=>30; Height=>40"/>
	Example : wid=>12; len=>12
Min Input Validation Msg <small>[global]</small>	<input type="text" value="Minimum {title} is {min}"/>
	Example : Minimum {title} is {min} -> Minimum Width is 12
Max Input Setting <small>[global]</small>	<input type="text" value="wid=>50; Height=>60"/>
	Example : wid=>22; len=>22
Max Input Validation Msg <small>[global]</small>	<input type="text" value="Maximum {title} is {max}"/>
	Example : Maximum {title} is {max} -> Minimum Width is 22

- **Enable Formula Price** - You can Enable/Disable module for specific product.
- **Final Equation for Price** - It will used to add your custom mathematical equation. You can set product wise different

equation. You can use the text product attributes code in an equation which value is numeric. You can also use custom option title directly in equation if it does not contain any special character.

e.g.: $\{area\} + \{col\} + \text{round}(\{fixed_surcharge\}) + \{Main\ compartment\} + \{Pocket\} + \{Type\}$

Here $\{area\} \Rightarrow$ Come from Static Variables (Formula Based) for Equation

$\{col\} \Rightarrow$ Custom option variable which is defined in *Assign Variable to Custom Option Title*

$\{fixed_surcharge\} \Rightarrow$ Come from Static Variables for Equation

$\{Main\ compartment\} \Rightarrow$ Come from in *Static Variables (Formula Based) for Equation* and value come from Custom option variable which is defined in *Assign Variable to Custom Option Title*

$\{Pocket\} \Rightarrow$ Come from Custom option title

$\{Type\} \Rightarrow$ Come from Custom option title

- **Assign Variable to Custom Option Title** - Assign variable name to custom option title and after assigned, you can use that variable into equation. If custom option title contain special character you have to define here first and then use into equation.

e.g.: Width=>wid;

Color=>col;

How many Main compartment with zip?=>Main compartment;

Here, you can see we used $\{col\}$ and $\{Main\ compartment\}$ in *Final Equation for price*.

$\{wid\}$ in *Static Variables (Formula Based) for Equation* .

- **Static Variables for Equation** - You can add some additional static variable. It can be directly used in equation.

e.g.: fixed_surcharge=>1.1;

Here, you can see we used $\{fixed_surcharge\}$ in *Final Equation for price*.

- **Static Variables (Formula Based) for Equation** - You can write equation and store in custom variable and that variable you can use in Final Equation.

e.g.: area=> $\{wid\} * \{Height\}$;

Here, you can see we used $\{area\}$ in *Final Equation for price*.

$\{Height\}$ is custom option title.

- **Assign Variable to Custom Option Value** - It will be used to assign values to Custom Option(Dropdown, Radio, Checkbox, Multiple Select). If you assign Option label and price for particular option here it will get value from here and if not assign then it will get from custom option price.

e.g.: $\{Two\} \Rightarrow 22$;

$\{Backpack\} \Rightarrow 10$;

- Extra Price Formula (Discount/Upcharge)** - This will be used to change price on condition based. Suppose, Some time we want to give some discount like if product width is greater than 10 then give fixed 10 discount.
 e.g.: $(\{Height\} \geq 50) \Rightarrow -(\{newprice\} * 0.5 / 100)$
 Here $\{Height\} \geq 50$ condition is true when you add Color Height greater than and equal to 50, $\{newprice\}$ is final price of equation, In $-(\{newprice\} * 0.5 / 100)$ Here we use $-$ for discount and for Upcharge just write like this $(\{newprice\} * 0.5 / 100)$
- Min Input Setting** - If you want to add minimum value validation to Text Field type Custom Option. Through this setting it is possible.
 e.g.: Minimum Width is 30 and Minimum Length is 40
 Syntax:
 $wid \geq 30;$
 $Height \geq 40$
 Here, wid is variable of Custom option which is defined in *Assign Variable to Custom Option Title*. Height is Custom option Title.
 Note: New validation separated by semicolon (;)
- Min Input Validation Msg** - You can customise your message for show validation.
 e.g.: Minimum $\{title\}$ is $\{min\}$
 Here $\{title\}$ and $\{min\}$ value will be replaced by that **Field Title** and **Field Min input value** from **Min Input Settings**
- Max Input Setting** - If you want to add maximum value validation to Text Field type Custom Option. Through this setting it is possible.
 e.g.: Maximum Width is 50
 Syntax:
 $wid \leq 50;$
 $Height \leq 60$
 Here, wid is variable of Custom option which is defined in *Assign Variable to Custom Option Title*. Height is Custom option Title.
 Note: New validation separated by semicolon (;)
- Max Input Validation Msg** - You can customise your message for show validation.
 e.g.: Maximum $\{title\}$ is $\{max\}$
 Here $\{title\}$ and $\{max\}$ value will be replaced by that **Field Title** and **Field Max input value** from **Max Input Settings**

Front-End

Product Page

Here, When you change values in custom option than price will change automatically based on product price formula and validation of text field will be apply when you click on Add to cart button.

Note: Price will be change on qty or custom option change and works with simple products only.

Home > Bag Creation

Bag Creation

Be the first to review this product

\$1,609.91 IN STOCK
SKU#: Bag Creation

Final Equation for Price
[area]+[col]+round([fixed_surcharge])+[Main compartment]+[Pocket]+[Type]

Assign Variable to Custom Option Title
Width->wid;Use Color->col;
How many Main compartment with zip?->Main compartment

Static Variables (Formula Based)
area->[wid]*[Height]
30 * 52 = 1560

Static Variables
fixed_surcharge->1.10
round(1.10) = 1

Assign Variable to Custom Option Value
[Two]->22;[Backpack]->10;

[col] 10	[Pocket] 15	[Main compartment] 22	[Type] 10
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1560 + 10 + 1 + 22 + 15 + 10 = 1618

Extra Price Formula (Discount / Upcharge)
([Height]>=50)->-[newprice]*0.5/100
1618 + (-1618*0.5/100)

1618 + (-8.09) = 1609.91

Width *
30

Height *
52

How many Main compartment with zip? *
Two +\$30.00

Type *
 Backpack + \$5.00
 Laptop + \$5.00

Pocket *
 Zip +\$15.00
 Stash +\$15.00

Use Color *
 Black + \$10.00
 White + \$15.00
 Blue + \$20.00
 Navy + \$25.00

Qty
1

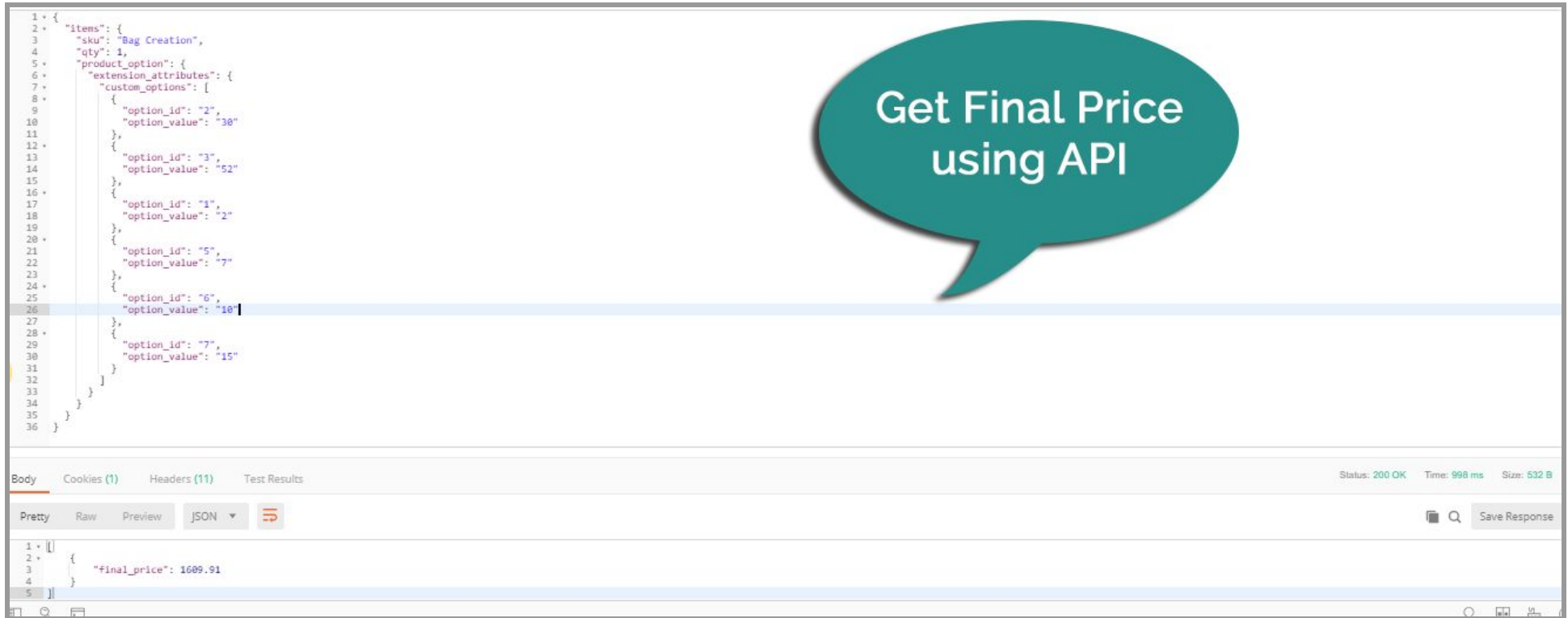
Add to Cart

ADD TO WISH LIST | ADD TO COMPARE | EMAIL

[\(Click To view Large Image\)](#)

API Request for get Final Price

Here, You have to pass your custom option id and value in request to get price.



The screenshot displays a REST client interface with a request body on the left and a response body on the right. A teal speech bubble with the text "Get Final Price using API" is overlaid on the right side of the request body.

```
1 {
2   "items": {
3     "sku": "Bag Creation",
4     "qty": 1,
5     "product_option": {
6       "extension_attributes": {
7         "custom_options": [
8           {
9             "option_id": "2",
10            "option_value": "30"
11          },
12          {
13            "option_id": "3",
14            "option_value": "52"
15          },
16          {
17            "option_id": "1",
18            "option_value": "2"
19          },
20          {
21            "option_id": "5",
22            "option_value": "7"
23          },
24          {
25            "option_id": "6",
26            "option_value": "10"
27          },
28          {
29            "option_id": "7",
30            "option_value": "15"
31          }
32        ]
33      }
34    }
35  }
36 }
```

Body Cookies (1) Headers (11) Test Results Status: 200 OK Time: 998 ms Size: 532 B

Pretty Raw Preview JSON Save Response

```
1 []
2 {
3   "final_price": 1609.91
4 }
5 ]
```

[\(Click To view Large Image\)](#)

Additional Information

Here, If you want to use product attribute in Formula you have to create attribute if not exist. Follow this link to create new attribute - <https://www.mageplaza.com/kb/how-to-create-product-attribute-magento-2.html>

For e.g you create product attribute called Total Number and Attribute code is total_number and second existing attribute is Price and attribute code is price so you can use it in formula like this

Formula - {total_number}+{price}

Note: Product Attribute should be have numeric value and attribute input type is text.

Support

We support all our customers through our website <https://www.magearray.com/support> or mail us on **support@magearray.com**.

If you have any questions on Extension or need support with its use please contact us <https://www.magearray.com/contact> - we're happy to help you.