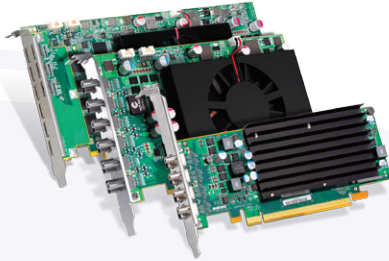


C-Series Display Configurations for Video Walls

Matrox C-Series™ cards are available in three models: C900, C680, and C420, providing nine-, six-, and four-outputs, respectively. With a single board or by combining two boards you can power various multi-display configurations ranging from two to eighteen screens.

C-Series cards feature stretched desktop¹ mode to deliver a single, ultra-large desktop across all displays attached to one card—ideal for video wall, digital signage, and presentation applications. In stretched desktop mode all the video outputs are synchronized, and they must be set to run at the same resolution.²

Find which C-Series display configuration is best suited for your needs.



Single-Board Configurations

With one C-Series card, you can create various display configurations from two to six screens, and nine screens.

- [Display walls with 9 screens \(C900\)](#)
- [Display walls with 6 or 5 screens \(C680\)](#)
- [Display walls with 4 or 2 screens \(C680 or C420\)](#)

Dual-Board Configurations

Two Matrox C-Series cards combined within a single system support configurations from seven to 12 screens, as well as 15 and 18 screens.

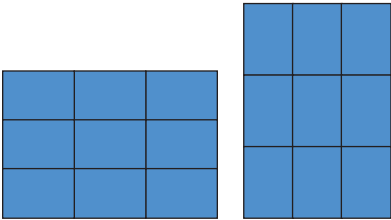


When operating a dual-board configuration, stretched desktop mode is available across the displays attached to one card; the board-to-board framelock feature available with C680 and C900 ensure that all the displays are running in synch and refreshed at the same time.

- [Display walls with 7 to 18 screens](#)

The most popular single- and dual-board configuration options are on the next page; please contact us if you can't find the configuration you are looking for.

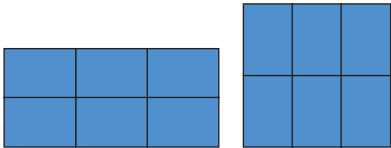
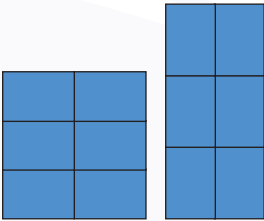
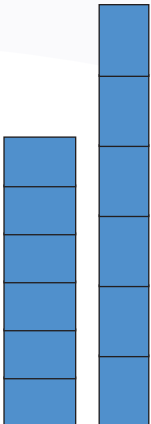
1. C680 and C420 cards also support independent desktop mode, which allows mixing displays running different resolutions and/or orientations. These display configurations are not listed in this document.
2. Total stretched desktop horizontal or vertical resolution cannot exceed 16K under Windows.

9 screens

Single-Board Configurations	Layout	Screen Orientation	Card	Synchronized Outputs	Bezel Management
	3x3	Landscape or portrait	C900 x1	Yes	Yes
	9x1 ²	Landscape	C900 x1	Yes	Yes
	1x9 ²	Portrait	C900 x1	Yes	Yes

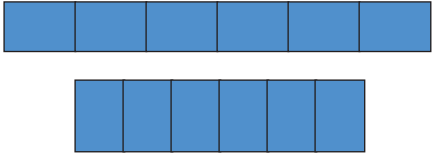
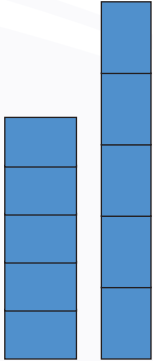
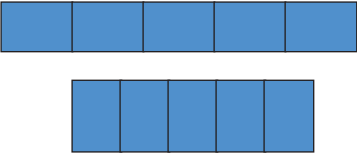
1. C680 and C420 cards also support independent desktop mode, which allows mixing displays running different resolutions and/or orientations. These display configurations are not listed in this document.
 2. Total stretched desktop horizontal or vertical resolution cannot exceed 16K under Windows.

6 or 5 screens

Single-Board Configurations	Layout	Screen Orientation	Card	Synchronized Outputs	Bezel Management
	3x2	Landscape or portrait	C680 x1	Yes	Yes
	2x3	Landscape or portrait	C680 x1	Yes	Yes
	1x6 ²	Landscape or portrait	C680 x1	Yes	Yes

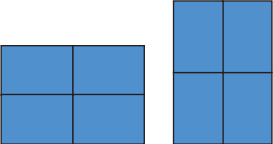
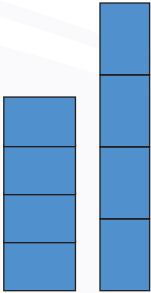
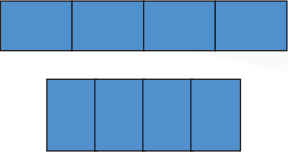
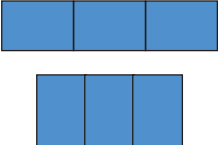
1. C680 and C420 cards also support independent desktop mode, which allows mixing displays running different resolutions and/or orientations. These display configurations are not listed in this document.
 2. Total stretched desktop horizontal or vertical resolution cannot exceed 16K under Windows.

6 or 5 screens

Single-Board Configurations	Layout	Screen Orientation	Card	Synchronized Outputs	Bezel Management
	6x1 ²	Landscape or portrait	C680 x1	Yes	Yes
	1x5 ²	Landscape or portrait	C680 x1	Yes	Yes
	5x1 ²	Landscape or portrait	C680 x1	Yes	Yes

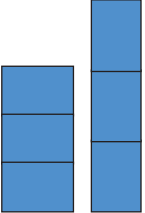
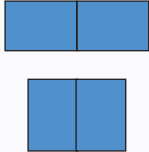
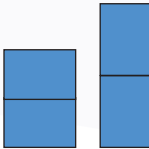
1. C680 and C420 cards also support independent desktop mode, which allows mixing displays running different resolutions and/or orientations. These display configurations are not listed in this document.
 2. Total stretched desktop horizontal or vertical resolution cannot exceed 16K under Windows.

4 or 3 screens

Single-Board Configurations	Layout	Screen Orientation	Card	Synchronized Outputs	Bezel Management
	2x2	Landscape or portrait	C680 x1 OR C420 x1	Yes	Yes
	1x4	Landscape or portrait	C680 x1 OR C420 x1	Yes	Yes
	4x1	Landscape or portrait	C680 x1 OR C420 x1	Yes	Yes
	3x1	Landscape or portrait	C680 x1 OR C420 x1	Yes	Yes

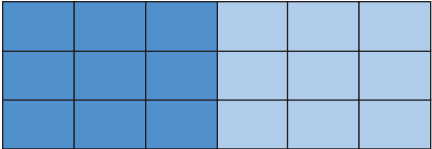
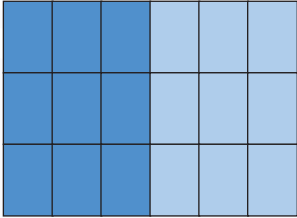
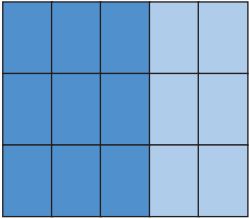
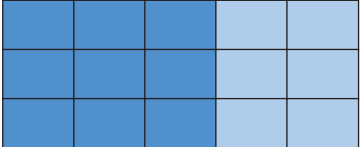
1. C680 and C420 cards also support independent desktop mode, which allows mixing displays running different resolutions and/or orientations. These display configurations are not listed in this document.
 2. Total stretched desktop horizontal or vertical resolution cannot exceed 16K under Windows.

3 or 2 screens

Single-Board Configurations	Layout	Screen Orientation	Card	Synchronized Outputs	Bezel Management
	1x3	Landscape or portrait	C680 x1 OR C420 x1	Yes	Yes
	2x1	Landscape or portrait	C680 x1 OR C420 x1	Yes	Yes
	1x2	Landscape or portrait	C680 x1 OR C420 x1	Yes	Yes

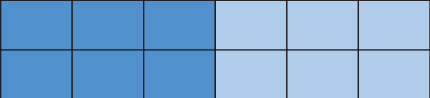
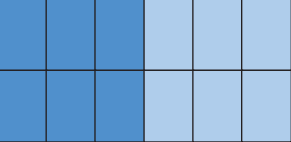
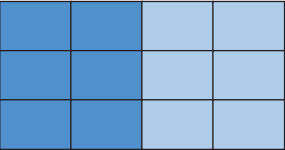
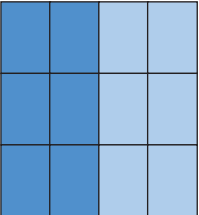
1. C680 and C420 cards also support independent desktop mode, which allows mixing displays running different resolutions and/or orientations. These display configurations are not listed in this document.
 2. Total stretched desktop horizontal or vertical resolution cannot exceed 16K under Windows.

7 to 18 screens

Dual-Board Configurations	Layout	Screen Orientation	Card	Board-to-Board Framelock	Bezel Management	Inter-Card Bezel Management
 	6x3	Landscape or portrait	C900 x2	Yes	Yes	Yes
 	5x3	Landscape or portrait	C900 x2	Yes	Yes	Yes
			C900 x1 + C680 x1	No	Yes	No

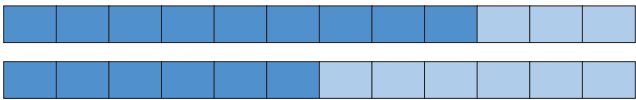
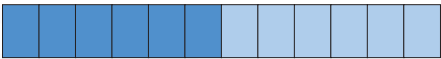

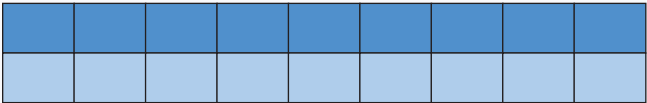



1. C680 and C420 cards also support independent desktop mode, which allows mixing displays running different resolutions and/or orientations. These display configurations are not listed in this document.
 2. Total stretched desktop horizontal or vertical resolution cannot exceed 16K under Windows.

7 to 18 screens

Dual-Board Configurations	Layout	Screen Orientation	Card	Board-to-Board Framelock	Bezel Management	Inter-Card Bezel Management
 	6x2	Landscape or portrait	C680 x2	Yes	Yes	No
 	4x3	Landscape or portrait	C680 x2 or C900 x2	Yes	Yes	No Yes

1. C680 and C420 cards also support independent desktop mode, which allows mixing displays running different resolutions and/or orientations. These display configurations are not listed in this document.
 2. Total stretched desktop horizontal or vertical resolution cannot exceed 16K under Windows.

7 to 18 screens

Dual-Board Configurations	Layout	Display Orientation	Card	Board-to-Board Framelock	Bezel Management	Inter-Card Bezel Management
	12x1 ²	Landscape	C900 x2 or	Yes	Yes	Yes
			C900 x1 + C680 x1 or	No	Yes	No
			C680 x2	Yes	Yes	No
	12x1 ²	Portrait	C680 x2	Yes	Yes	No
	15x1 ²	Landscape	C900 x2 or	Yes	Yes	Yes
			C900 x1 + C680 x1	No	Yes	No
	9x2 ²	Landscape	C900 x2	Yes	Yes	No
	18x1 ²	Landscape	C900 x2	Yes	Yes	Yes
	8x1	Landscape	C680 x2 or	Yes	Yes	No
			C420 x2	No	Yes	No
	8x1	Portrait	C680 x2 or	Yes	Yes	No
			C420 x2	No	Yes	No

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Contact us for more information

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2. Total stretched desktop horizontal or vertical resolution cannot exceed 16K under Windows.