

User Port Selection Guide

This guide will help you select the right User Port for your application. All User Port models can connect to standard peripherals at the desktop including monitor, keyboard, mouse and speakers. Support of other peripherals depends on the specific User Port. The following table outlines the features of all ClearCube User Port models and the MVX, which is a C/Port accessory for connecting up to four monitors to a single C/Port.

User Port Model and Image							
	C/Port	MVX ¹	I8440	I8442	I9420	I9440	C7420
Analog vs. Digital	Analog	Analog	Digital	Digital	Digital	Digital	Digital
Signal Type	ClearCube Proprietary	ClearCube Proprietary	Microsoft RDP Citrix ICA	Microsoft RDP Citrix ICA	PC-over-IP (PCoIP)	PC-over-IP (PCoIP)	PC-over-IP (PCoIP)
Maximum Video Resolution	1600x1200 @ 60 Hz (1)	1280x1024 @ 60 Hz (2-4)	1024x768 @ 75 Hz 32-bit color	1920x1200 @ 60 Hz (1-2) 32-bit color	1600x1200 @ 75 Hz (1-2) 32-bit color	1600x1200 @ 60 Hz (1-4) 32-bit color	1600x1200 @ 75 Hz (1-2) 32-bit color
Video	VGA	VGA	VGA	One VGA and one DVI	DVI-I ⁶	DVI-I ⁶	DVI-I ⁶
Connection to Blade	Cat 5 660 ft. (200m) or Cat 6 330 ft. (100m)	N/A	Cat 5 or Cat 6 10/100 Mbps Ethernet	Cat 5 or Cat 6 10/100/1000 Mbps Ethernet	Cat 5 or Cat 6 10/100 Mbps Ethernet	Cat 5 or Cat 6 10/100/1000 Mbps Ethernet	62.5 µm or 50 µm fiber 10/100 Mbps
Audio In/Out	Yes/Yes	N/A	Yes2/Yes	Yes2/Yes	Yes/Yes	Yes/Yes	Yes/Yes
Memory	N/A	N/A	512-1024 MB System 512-2048 MB Flash	512-1024 MB System 512-2048 MB Flash	N/A	N/A	N/A
PS2 Ports	2	N/A	2	2	None ⁵	None ⁵	None ⁵
USB Ports	2x1.1 ⁴	N/A	4X2.0	4X2.0	4x1.1	4x1.1	4x1.1
Serial/Parallel Ports	N/A	N/A	2/1	2/1	N/A	N/A	N/A
Internal Options	N/A	N/A	Smart Card Reader Wireless LAN	Smart Card Reader Wireless LAN	N/A	N/A	N/A
Power Consumption	15W Max	15W Max	11W Typical 34W Maximum	11W Typical 30W Maximum	15 W Maximum	30W Maximum	15W Maximum
Virtualization Capable?	No	No	Yes	Yes	No	No	No
Microsoft OS Support	XP, Vista	XP only	XP, Vista	XP, Vista	XP, Vista	XP only	XP, Vista
Embedded OS	N/A	N/A	XPe, and Linux	XPe, and Linux	N/A	N/A	N/A

1. The MVX is a C/Port accessory that can be matched with a NVIDIA mezzanine video card on the PC blade to drive up to four displays.
2. Audio Out refers to audio from blade to user port for connecting speakers. Audio In refers to signals from user port to blade for connecting a microphone to user port.
3. Audio In is not supported over RDP. Audio In can only be used locally on the I/Port.
4. The C/Port transparently extends USB 1.1 from the PC Blade, enabling support for a wide variety of USB devices.
5. The I9440, I9420 and C7420 do not accept PS2 peripherals such as keyboard and mouse. All peripherals on these User Ports are USB based connections.
6. For customers that require the use of the I9440, I9420 and C7420 in conjunction with VGA connectors on their displays, you may use a DVI to VGA adapters.
7. Please refer to the Certified Peripheral List for supported keyboard and mouse models.

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Selection by Application

The key to a successful User Port installation is properly aligning the User Port model with your application requirements. The table below outlines the appropriate C/Port or I/Port model based on several different applications. For specialized applications not listed below, contact your ClearCube account executive.

Application	Recommended User Port	Comments
Text and basic 2D graphics	All models	
High resolution full-speed video	I9440, I9420, C7420, C/Port & MVX	
Space constrained desktop	All models	
Under desk or wall mount	I9440, I9420, C/Port & MVX	Requires mounting bracket accessory
Dual monitor support over Ethernet	I9440, I9420, C7420, I8442	
Quad monitor support over Ethernet	I9440	
Native fiber interconnect between desk and blade	C7420	
Remote access over software VPN	I8440, I8442	See "Enabling Remote Services with ClearCube Centralized Computing" solution paper on ClearCube website (www.clearcube.com).
Wireless networking (802.11x)	I8440, I8442	
Healthcare mobile stations	I8440, I8442	See "Mobile Workstation for Healthcare" solution paper on ClearCube website (www.clearcube.com)
PACS: clinical or remote physicians review station	All models	See "Deploying PACS with ClearCube PC Blades" solution paper on ClearCube website for details on video resolutions supported.
Financial trading floors	I9440, I9420, C7420, C/Port & MVX	
Government - Command & Control	I9440, I9420, C7420, C/Port & MVX	

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