

DATA SHEET

VWNUCI3, VWNUCI5, VWNUCI7

RADIAN FLEX I3, I5, I7 MINI PC

24/7 TECHNICAL SUPPORT AT 877.877.2269 OR VISIT BLACKBOX.COM



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OVERVIEW

RADIAN FLEX MINI PC DATA SHEET

INTRODUCTION

This powerful Radian Flex Mini PC gives you everything you need to connect your Radian Flex system with your video wall screens. The Radian Flex software is preloaded onto the system so you can set your video wall up in seconds. Just connect the PC to displays and it's ready to go.

Small Form Factor

The small, yet powerful PC fits behind a screen or can be mounted anywhere nearby a video wall without taking up any considerable space. The Mini PC can stream up to 4K video powered by Intel® UHD Graphics, which makes it a great fit for any high resolution video wall that meets today's standards.

10th Gen Processing Power

Featuring the latest 10th Gen Intel Core processors and support for up to 64 GB of high speed DDR4 RAM, you have more CPU power than ever in a 4 x 4 form factor. Combine this with Intel UHD Graphics, Thunderbolt™ 3, DisplayPort, and HDMI capability for the optimal visual experience. Use these Mini PCs to add up to three 4K displays to your Radian Flex video wall. The PC is available as i3, i5 and i7 CPU editions including SSD and Windows® 10 (64-bit).

Manage Your Video Wall

Radian Flex boasts an easy-to-use but advanced interface that gives you the tools you need to manage content from video captures, IP streams, and local applications. And this system is robust and adaptive. It allows any piece of content to be placed anywhere on your video wall, whether from a Black Box or Data-path capture card, IP via the PC processor, an ActiveSQX card or local media.

Intel UHD Graphics provide a brilliant 4K experience. You have the performance you need to create content without having to wait as your video and images render. Quick charging gets you going faster than ever.

Cut Cords, Not Performance

The Mini PC meets the latest wireless connectivity standards with the latest Intel Wi-Fi® 6 and Bluetooth® 5 technology. Connect your Radian Flex Mini PC to a Wi-Fi device for rich visuals and audio without the clutter of cables.

Selecting Your PC

Three models are available: choose from i3, i5, or i7 Intel "Core" processors.

- Radian Flex i3 Mini PC (VWUNUCi3)
- Radian Flex i5 Mini PC (VWUNUCi5)
- Radian Flex i7 Mini PC (VWUNUCi7)

A higher-numbered Core processor will perform better than a lower-numbered one. With several technology generations on the market at the same time, you can sometimes save money if an older-generation chip has the specs you want.

So how do you choose? If your Radian Flex Video Wall is primarily used to display video streams, word processing spreadsheets, photos, and online banking feeds, choose the i3 processor. For moderately demanding business applications and content creation (video editing, animation, etc.), choose the i5 processor. For highly demanding applications, such as faster 3D rendering, live-streaming, and workstation-level projects, the i7 processor is your best fit.

FEATURES

- Uses 10th Generation Intel® Core i3, i5, or i7 processor
- Displays Intel UHD Graphics
- Includes two DDR4-2666 SO -DIMM Sockets
- M2 slot supports PCI or SATA SSDs
- Intel Optane™ Memory ready
- All models have a 2.5" SATA drive bay
- SDXC card slot (UHS-II)
- Conforms to HDMI 2.0a supporting 4K
- Includes Thunderbolt 3 (supports Alt-DP)
- Works with Intel Gigabit LAN , Wi-Fi® 6, and Bluetooth 5
- Has five USB 3.1 Gen. 2 ports (10 GB) (one charging)
- Optimizes Digital audio 7.1 surround sound and a far-field quad-array microphone
- Go wireless with Internal dual-band antennas
- Includes consumer IR receiver
- Supports a Kensington lock
- Powered via a 19-VDC jack (12- to 19-VDC operation)
- Mounts using a VESA mount kit
- Customize with DDR4 RAM 4 GB–64 GB, M2 SSD 128 GB–2 TB, 2.5 SATA 64 GB–8 TB, and two USB 2.0 headers



SPECIFICATIONS

RADIAN FLEX MINI PC DATA SHEET

FRONT VIEW



VWNUC3, 5, or 7

BACK VIEW



VWNUC3, 5, or 7

RADIAN FLEX MINI PC (VWNUC3, VWNUC5, AND VWNUC7)	
PROCESSOR	VWNUC3: Intel® Core™ i3-1011U processor (2.1 GHz with 4.1 GHz Turbo, Dual Core, Hyper-thread, 4 MB Cache, 25 W TDP) VWNUC5: Intel Core i5-10210U processor (1.6 GHz with 4.2 GHz Turbo, Dual Core, Hyper-thread, 6 MB Smart Cache, 25 W TDP) VWNUC7: Intel Core i7-10210U processor (1.1 GHz with 4.7 GHz Turbo, Dual Core, Hyper-thread, 12 MB Smart Cache, 25 W TDP)
STORAGE CAPABILITIES	<ul style="list-style-type: none"> • One M.2 socket supporting 22 x 42 or 22 x 80 M.2 SSDs, SATA or PCIe, 2 TB max. • Intel Optane™ Memory ready. • One SATA 3 port for connection to 2.5" HDD or SSD up to 9.5-mm thick (4 TB SSD or 2 TB HDD max.)
AUDIO	<ul style="list-style-type: none"> • Up to 7.1 surround via HDMI • Front headset jack • Quad-array far-field beam-forming microphones
HARDWARE MANAGEMENT	<ul style="list-style-type: none"> • Voltage and temperature sensing • ACPI-compliant power management control • Processor fan speed control • Sensors monitor fan activity
GRAPHICS	<ul style="list-style-type: none"> • Intel HD Graphics • One HDMI 2.0a port • USC Type C port with DisplayPort 1.2 • Max. three 4K @ 60 Hz displays
PERIPHERAL CONNECTIVITY	<ul style="list-style-type: none"> • Intel Gigabit LAN i219-V • Three USB 3.1 Gen2 Type-A ports (two back; one front) • Two USB 3.1 Gen2 Type-C port (one back; one front with charging) • Two additional Hi-Speed USB 2.0 ports via internal header • Intel Wi-Fi® 6 AX200 (802.11ax), 2 x 2, up to 2.4 Gbps • Bluetooth® 5 • Thunderbolt 3 on USB Type-C port • Consumer infrared receiver on front
BASEBOARD POWER REQUIREMENTS	<ul style="list-style-type: none"> • 19 V, 90 W AC-DC power adapter • 12 to 19 VDC input range • International cords available
DIMENSIONS	2.0" H x 4.6" W x 4.4" D (5.1 x 11.7 x 11.2 cm)
SYSTEM MEMORY	Two DDR4-2666 SO-DIMM sockets, 64 GB Max., 1.2 V
SYSTEM BIOS	<ul style="list-style-type: none"> • 64 MB Flash EEPROM with Intel Platform Innovation Framework for EFI Plug and Play • Advanced configuration and power interface V3.0b, SMBIOS2.5 • Intel Visual BIOS • Intel Express BIOS update support
FRONT-PANEL HEADER	Reset, HDD LED, Power LEDs, power on/off
EXPANSION CAPABILITIES	<ul style="list-style-type: none"> • Two USB 2.0 ports on two 1 x 4 headers • 2.5-in drive bay for SATA drive • Functional or decorative lid support • HDMI CEC header
SAFETY COMPLIANCE	<ul style="list-style-type: none"> • IEC 60950-1 • UL 60950-1 • EN 60950-1 • CAN/CSA-C22.2 No. 60950-1

SPECIFICATIONS (CONTINUED)

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RADIAN FLEX MINI PC (VWNUC3, VWNUC5, AND VWNUC7)	
OPERATING TEMPERATURE	32 to 122° F (0 to 50° C)
STORAGE TEMPERATURE	-40 to +140° F (-40 to +60° C)
EMC/RF REGULATIONS AND STANDARDS	<ul style="list-style-type: none">• CISPR 52• FCC CFR Title 47, Chapter I, Part 15, Subparts B, C, E• ICES-005• EN 55052• EN 55024• ETSI EN 500 528• ETSI EN 501 489-1• ETSI EN 501 489-17• ETSI EN 501 895• EN 62511• AS/NZS 2772.2• AS/NZS 4268• VCCI V-2, V-5, V-4• KN-52• KN-24• CNS 15458
ENVIRONMENTAL REGULATIONS	<ul style="list-style-type: none">• RoHS Directive 2011/65/EU• WEEE Directive 2012/19/EU• China RoHS

ORDERING INFORMATION

ITEM	CODE
Radian Flex Mini PC	
i3	VWNUC13
i5	VWNUC15
i7	VWNUC17

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Every day, our customers trust us to design, integrate, and maintain reliable control room solutions for broadcasting, post-production, stadiums & arenas, medical, air traffic control, oil & gas, government & military, and utility industries. Leave the tech to us and our comprehensive technology solutions will deliver secure connections, fast-response times, real-time collaboration and more.

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