

RX-series: RX420(RDP)

RX420 (RDP) Features

- Microsoft RDP or *NComputing* VERDE VDI connection mode for Remote Desktop/VDI access
- RDP with Microsoft RemoteFX support for improved session performance
- Quadcore Broadcom 2711 (ARM v8) 1.5GHz 64-bit CPU
- Built-in 5GHz and 2.4GHz 802.11 b/g/n/ac Wi-Fi with Personal and Enterprise 802.1x security
- Maximum resolution: 3840x2160 (@60Hz single or @30Hz dual display); *NComputing* recommends 2560x1600 @60Hz max resolution for Microsoft RDP with RemoteFX
- 2 USB 3.0 and 2 USB 2.0 high-speed ports with transparent USB redirection
- 802.1x (PEAP, EAP-TLS, EAP-TTLS) support
- 16 GB internal Micro SD card and 2GB RAM
- Built-in Kensington security slot and sealed micro SD card for added protection
- National keyboard layout support
- Low power consumption.
- Power button with sleep mode
- VESA mount kit included
- One year of firmware maintenance updates included

Optional Features

- *NComputing* SuperRDP Server Pack with vCAST Streaming support. Separate licenses required.
- PMC Device Management software to remotely manage RX420(RDP).

RDP Optimized Thin Clients for Business

+ Support for native dual displays and 5GHz WLAN Deployment

The RX420(RDP) thin client is built on the Raspberry Pi 4 platform, fully optimized for RDP achieving compelling performance and value. Designed and optimized specifically for Microsoft RDS and VERDE VDI, the RX420(RDP) is cloud-ready and provides a rich PC-like experience powered by Quadcore Broadcom 2711 (ARM v8) 64-bit system-on-chip. RX420(RDP) features native dual display, full-screen, full-motion HD multimedia playback with Microsoft RemoteFX support, dual-band 2.4/5GHz WiFi connectivity and built-in transparent USB redirection for unparalleled peripheral support.



RX420(RDP) configuration and firmware updates can be remotely managed by the IT admin. The RX420(RDP) provides a simple to deploy, centrally managed, high performance virtual desktop, perfect for use in SMB and SME organizations with Microsoft Windows Server or VDI infrastructure.

Microsoft RemoteFX session support

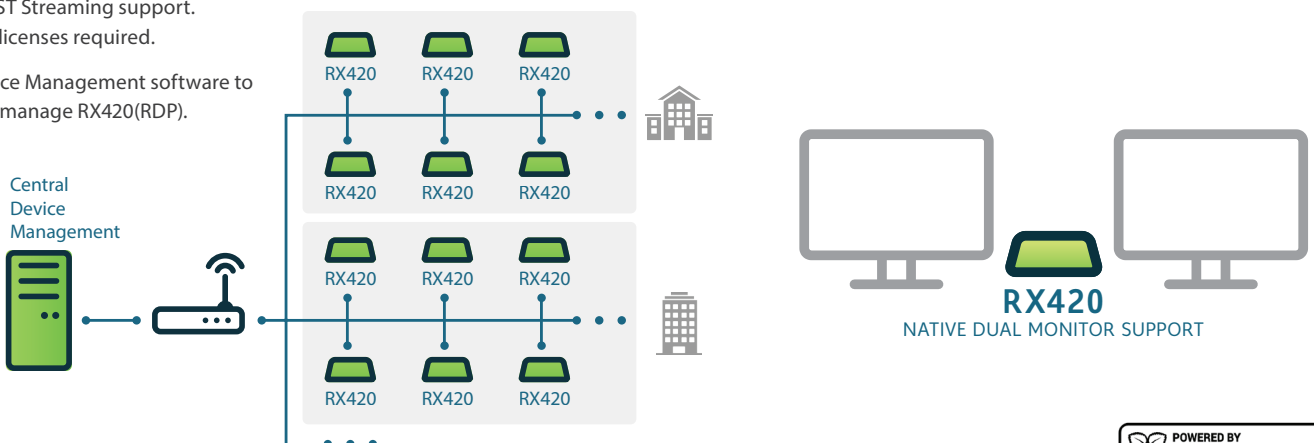
Enabling the RemoteFX feature for Remote Desktop connection greatly enhances the user's visual experience. Especially host systems equipped with supported graphic cards will benefit.

NComputing vCAST Streaming with client-side rendering via SuperRDP

SuperRDP brings the power of our vCAST Streaming technology to RDP - reducing server-side CPU usage for streaming services like YouTube as well as local media content without the need for expensive GPUs. This allows for higher quality media streaming utilizing network bandwidth instead of heavy server CPU usage, thereby supporting more concurrent users. SuperRDP software is available separately and installs on the server.

Central management & express deployment with PMC Device Management

The RX420(RDP) is easy to configure from our optional PMC Device Management solution. An admin can remotely manage devices over local and wide-area networks, including locations behind firewalls and NAT-routers, through an easy-to-use web-based user interface. Administrators may define multiple device profile configurations, then push to individual or grouped devices through scheduled updates, including firmware. A dashboard summary and detailed event logging provide valuable information about your deployment.



RX420 (RDP)

Native Dual Monitor Support

Two micro-HDMI ports support either a single display with resolutions up to 4K @60Hz or dual display configurations of up to 4k@30Hz. *NComputing* recommends 2560x1600 @60Hz max resolution for Microsoft RDP with RemoteFX.

Licensing

RX420(RDP) comes with RDP and VERDE VDI connection mode support. Separate Microsoft RDS and *NComputing* VERDE VDI software connection licenses are required. *NComputing* vCAST Streaming for RDP also require separate licenses. Contact *NComputing* for more details. RX420(RDP) comes with one year of firmware maintenance updates from the time of purchase.

Broad USB Peripheral Support

USB devices are transparently redirected, supporting mass storage, printers, scanners, smart card readers, headsets/speakers, webcams, COM ports, and 3D mice. Network-connected printers are also available.

Supported Operating Systems:

- Windows Server 2019
- Windows Server 2016
- Windows Server 2016 (Multipoint Services)
- Windows Server 2012 R2 U1,
- Windows Server Multipoint Server 2012
- Windows Server 2008 R2 SP1
- Microsoft Windows Desktops (for 1-1 VDI):
 - Windows 10, 8.1, 7 SP1

RX420 (RDP) Connections

1. Power button with sleep mode for additional power savings (on top)
2. 2 USB 3.0 and 2 USB 2.0 High-Speed ports with full USB redirection support (2 required for mouse and keyboard)
3. Gigabit Ethernet RJ45 port
4. Kensington security port
5. Power in (USB-C)
6. Dual micro HDMI video output
7. Speaker jack: 16bit/44kHz/Stereo high-quality audio



HARDWARE	DESCRIPTION
KIT CONTENTS	Each RX420 (RDP) kit includes 1 access device, 1 power supply, 1 internal 16 GB SD card, 1 VESA mount kit and a Quick Installation Guide.
SIZE	Width: 76 mm / 3 inches, Depth: 93 mm / 3.7 inches, Height : 30 mm / 1.2 inches
WEIGHT	105g / 0.23 lbs Shipping weight (includes power adapter, packaging, document): 0.33kg / 0.72 lbs
POWER SUPPLY	5.0VDC (3A) power supply included
LED INDICATORS	Power, network link, and network activity
DISPLAY	Dual micro-HDMI video ports. Maximum resolution: 3840x2160 (@60Hz single or @30Hz dual display); <i>NComputing</i> recommends 2560x1600 @60Hz max resolution for Microsoft RDP with RemoteFX
VIDEO	<ul style="list-style-type: none"> • Full HD 1080P with H.264 support (client-side rendering with hardware acceleration) • Full HD Flash video 1080P support (server-side rendering)
SOC	Broadcom BCM2711, 1.5GHz 64bit Quad Core Cortex A72 Dual core VideoCore IV, Multimedia Processor
MEMORY	<ul style="list-style-type: none"> • Mass storage: 16 GB internal Micro SD card • RAM: 2GB
MONITOR POWER-SAVE	Sleep mode button to turn off display output for power saving mode
NETWORK AND CONNECTIVITY	<ul style="list-style-type: none"> • Gigabit Ethernet RJ45 port • Wi-Fi (5GHz and 2.4 GHz 802.11 b/g/n/ac) • Bluetooth 5, BLE
AUDIO	16-bit/44kHz/Stereo high quality digital audio with support for USB2.0 audio devices or via 3.5mm stereo audio jacks for headphone
PERIPHERAL SUPPORT	2 USB 3.0 and 2 USB 2.0 high-speed ports with transparent USB redirection
OPERATION MODE	Provisioned by IT admin: <ul style="list-style-type: none"> • RDP connection mode with RemoteFX support • VERDE VDI connection mode (RDP and UXP protocols supported)
FIRMWARE MAINTENANCE	Firmware maintenance updates are included free for one year from date of purchase.
WARRANTY	1-year hardware warranty included. Optional extended hardware warranty available.
MOUNT OPTIONS	VESA mount included
CABLE OPTIONS	RX420 Micro-HDMI cable Kit: (SKU 700-0035) 2 sets of 1.2 M Micro-HDMI cables RX420 Micro-HDMI adapter kit: (SKU 700-0034) 2 sets of 15cm Micro-HDMI to HDMI adapter dongles

RX-series products are RoHS compliant and have been EMI certified according to FCC, CE, BIS and KC standards.