NComputing

DATASHEET

RX-series: RX420(RDP)

Thin clients optimized for business.

+ Support for native dual displays and 5GHz WLAN Deployment

RX420 (RDP) Features

- Compatible with Microsoft RDS, Microsoft AVD, WIndows 365 Cloud PC, *NComputing* VERDE VDI & Remote Access, and vSpace Pro Enterprise
- Local Chromium browser with standalone and productivity mode
- 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
- Integrated VPN support (OpenVPN, OpenConnect and PPTP)
- 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 ; subsequent Annual Maintenance Plan available (NC-AMP-RXRDP-1A)

Optional Features

- *NComputing* SuperRDP Server Pack with vCAST Streaming support. Separate license required (SuperRDP-PREM-VC-P)
- Connecting to vSpace Pro Enterprise requires vSpace Pro Client connection license (vSpacePro-SW-1A)
- PMC Endpoint Manager software to remotely manage RX420(RDP).

The RX420(RDP) thin client is built on the Raspberry Pi 4 platform to achieve compelling performance and value. Compatible with Microsoft Azure Virtual Desktop (AVD), WIndows 365 Cloud PC, Remote Desktop Services (RDS), VERDE VDI, VERDE Remote Access, as well as vSpace Pro, 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. Integrated local Chromium browser support provides additional flexibility for direct access of web content and web apps without desktop virtualization. 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 AVD, Microsoft RDS, VERDE VDI or vSpace Pro deployments.

Microsoft RemoteFX session support

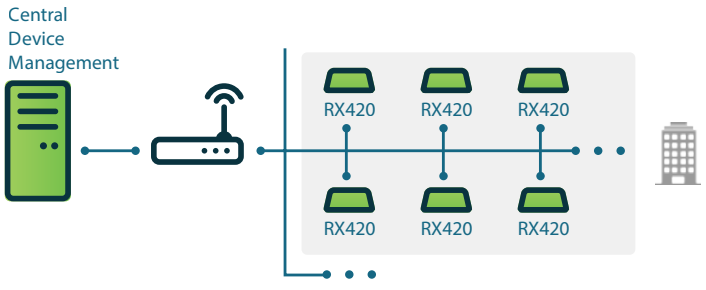
Enabling the RemoteFX feature for Remote Desktop connection greatly enhances the user's visual experience. Especially host systems equipped with supported graphic cards will benefit.

NComputing vCAST Streaming with client-side rendering via SuperRDP

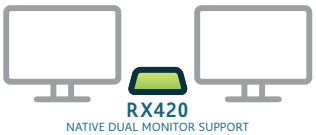
SuperRDP brings the power of our vCAST Streaming technology to RDP - reduceing server-side CPU usage for streaming services like YouTube as well as local media content without the need for expensive GPUs. This allows for higher quality media streaming utilizing network bandwidth instead of heavy server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

Central management & express deployment with PMC Endpoint Manager

The RX420(RDP) is easy to configure from our optional PMC Endpoint Manager software. 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.



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.

POWERED BY RASPBERRY PI

RX420 (RDP)

Supported Operating Systems:

- Windows Server: 2025, 2022, 2019, 2016, 2016 (Multipoint Services), 2012 R2 U1, Multipoint Server 2012, 2008 R2 SP1
- Microsoft Windows Desktops (for 1-1 VDI on Windows 10, 8.1, 7 SP1)

Supported Deployment Infrastructure

- Microsoft Windows Cloud PC
- Microsft RDS deployment with RD Gateway
- Microsoft Azure Virtual Desktop (AVD) deployment [firwmare v. 1.8.8 and higher]
- VERDE VDI with Remote Access and VDI support
- vSpace Pro Enterprise
- Local Chromium browser support

RX420 (RDP) Connections

1. Power button with sleep mode
2. 2 USB 3.0 and 2 USB 2.0 High-Speed ports with full USB redirection support
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

Licensing

RX420(RDP) comes with RDP, AVD, Windows 365 Cloud PC, VERDE VDI and vSpace Pro connection mode support. Separate software licenses for supported platforms 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 (local and network), scanners, smart card readers, headsets/speakers, webcams, COM ports, and 3D mice.

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 including power adapter 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); *NComputing* recommends 2560x1600 @60Hz max resolution for Microsoft RDP with RemoteFX
VIDEO	• 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	• **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	• Gigabit Ethernet RJ45 port • Wi-Fi (5GHz and 2.4 GHz 802.11 b/g/n/ac)
VPN CLIENTS	The following VPNs are supported: OpenVPN, OpenConnect VPN, PPTP, IPSec (L2TP and IKEv2), FortiClient SSL VPN
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: • Microsoft WVD, Microsoft RDS with RemoteFX support • VERDE VDI and VERDE Remote Access (RDP/UXP protocols) • vSpace Pro Enterprise (UXP protocol) • Local Chromium browser support
FIRMWARE	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	VESA mount included
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 **RX440(RDP)**: (SKU 500-0193) contains 4GB of RAM. Only available by request.

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

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