

Paragon II



Features	Benefits
Hardware	
Compact Form Factors	<p>Paragon II main switches come in 1U to 2U form factors and can be rack mounted. The small form factor saves expensive rack space and makes it perfect for large data centers where space is at a premium. Reduced form factors minimize electrical consumption by lowering HVAC provisioning needs.</p> <p>The Paragon II user stations double as monitor stands and occupy a minimal footprint on the desk.</p>
Smart Card and CAC Reader Capabilities	<p>Paragon II supports smart card authentication, enhancing security for both the private sector and government customers. A smart card reader is built into the Paragon II Enhanced User Station (model number P2-EUST/C).</p> <p>The solution is easy to deploy. Existing Paragon II customers (or Paragon I, hardware version 3 customers) who wish to implement the new card reader solution may simply replace their existing user stations with the new card reader user stations. A new computer interface module (P2CIM-AUSB-C) is also required for this solution. Lastly, a firmware upgrade of the Paragon UMT switch to the current version is needed. New Paragon II customers will implement the complete solution without the need to purchase additional smart card readers. Access of Windows and Linux servers with a ISO 7816 compliant smart card is supported.</p>
Highly Scalable Architecture	<p>The Paragon II switch architecture and the ability to cascade switches in tiers enable access to thousands of attached devices connected in a single logical deployment.</p>
Stackable Expansion Unit	<p>The Paragon II switches stacking unit allows expansion of each switch to attach up to 128 devices per switch with a single cable.</p> <p>Stacking architecture simplifies cabling between tiers by replacing pass through cables with a single expansion cable. These units save in-rack space and HVAC costs.</p>
Support for Local Analog and Remote IP Users	<p>Users can choose any of the two types of user stations while connecting to the Paragon II; the switch simultaneously operates with the Enhanced User Station (P2-EUST) and the User Station with integrated IP access (P2-USTIP). The P2-USTIP provides users with remote access to their Paragon II-connected servers or IT devices.</p>
CIM Technology	<p>Computer Interface Modules (CIMs), with “keep-alive” technology, allow users to add, remove and hot-swap components without interruption to the live servers.</p>

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Multiplatform CIMs	CIMs are available in USB, Sun™, PS/2 and serial for support of various servers and devices in your data center.
P2ZCIM	P2ZCIMs allow users to daisy chain up to 42 servers on a single chain, occupying only one server port on Paragon II. P2ZCIMs offer a flexible and cost-effective way to expand the Paragon II capability.
AC Power: 110/230V Auto-Switching	Integrated power supply ensures proper power provision and system reliability.
Raritan Design with LED Indicators	A sophisticated product look, featuring an ergonomic design and new blue LED indicators for clear, easy-to-see power, network activity and user activity.
Connectivity	
2, 4, 8 or 16 Non-blocked Users	Paragon II provides 2, 4, 8 or 16 users with non-blocked access to connected servers using the regular user station or the enhanced user station. With use of the Paragon II Dual CIM (P2CIM-APS2DUAL), user access is doubled – and with the P2-HUBPAC as many as 64 users can reach their desired targets.
Optional IP Access with the P2-USTIP or Dominion® KX II	Optional IP access allows up to two users to remotely access their Paragon II-connected servers through the P2-USTIP anytime, anywhere via a Web browser. The Dominion KX II may also be used for IP access to Paragon II. This option is perfect when your access solution requires both analog and IP access, or when support of an authentication/authorization platform is needed. CommandCenter® Secure Gateway may also be used when accessing Paragon II through the KX II.
32, 42 or 64 Server Ports on Main Switch, Expandable to 128 with Stacking Units	Paragon II comes with 32, 42 or 64 server ports on each main switching unit. Some models can be used with stacking units and expand to 128 server ports. By using channels to tier units, the system can support access to thousands of servers.
Cross-platform and Hardware Independent	Allows a mix of servers such as Windows®, Sun, Compaq, HP and UNIX® to be connected to the same switch. Also allows serial devices to be connected with the use of Raritan's AUATC adaptors.
Video Display	
High Video Resolutions	The P2-EUST provides video resolutions greater than 1920 x 1440 at distances over 300 meters at refresh rates of 60 Hz, and 1600 x 1200 at distances up to 300 meters at refresh rates of 75 Hz and 85 Hz.
Widescreen Resolutions	Paragon II supports the use of several widescreen resolution settings when using a VGA monitor (LCD displays only). Please refer to the user guide for further details.
Manual Skew Compensation	Users can manually adjust video clarity per server. Settings are saved in the Paragon database to be used the next time the user logs onto the system.

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Automatic Skew Compensation	The new P2CIMs perform automatic skew compensation when used with the enhanced user station (P2-EUST), achieving the best video quality by adjusting for signal loss based on cable distance and varying cable types. Manual skew compensation will continue to be supported by older CIMs, and can be used to override automatic settings in the new CIMs.
Power Management	
Integrated Power Management	Provides a single, consolidated view and control of Raritan's remote power management units connected to Paragon II. It automatically displays power strips and Paragon II targets on the connected ports. Administrators can monitor status and power on/off/recycle power to remote equipment including servers, remote alarm monitoring, HVAC and other critical data center equipment.
Management	
Paragon Manager® Administrative Software	Paragon's GUI software drastically simplifies management and monitoring of the data center by consolidating administration of attached equipment. With a single view of all connected equipment via the LAN, Paragon Manager lets you manage users by capturing and saving all system events for auditing purposes, push firmware upgrades via the network, associate power outlets to the connected targets and maintain system profiles.
Firmware Upgradability via Network Connection	Simplifies firmware updates by allowing the administrator to push upgrades out over the network and complete installs from the NOC – saving time and money.
Backward Compatibility	Paragon II is compatible with existing Paragon equipment, allowing for investment protection and continued ROI.
Event Logging	Paragon Manager will allow you to save and store system events to an appropriate text file.
Usability Features	
Ghosting	Saves users valuable configuration time by reusing the existing CIM channel name when CIMs are disconnected from the servers. Disabling ghosting enables a clean record in deployments where components are relocated frequently, allowing users greater freedom and flexibility.
System-wide Reset from the Analog User Station	Allows users to perform a system-wide reset of an entire matrix or a specific UMT from the analog user station without going to each switch to reset.
Screen Saver	In addition to the already supported green mode feature, a screen saver feature is provided.
Video Redirect	Allows administrators to redirect a server's video signals from one Paragon II Enhanced User Station (P2-EUST) to another P2-EUST that is connected to stacked and tiered units, or separate Paragon II base units (requires Paragon Manager). Video redirect is ideal for use in the NOC or training centers.

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Multiple Video Support	Multiple Video, also known as “Port Following Switch,” enables multiple user stations to simultaneously view the video output of servers that have multiple video ports (up to four). This feature also allows a user to access video from multiple servers (up to sixteen) and display them across fifteen other user ports. Channel/port association for using this feature is configured in Paragon Manager, a free administration application available with Paragon II. This feature is great for broadcast, video production, training and other applications where the sharing of video is needed.
Deko® Fast Action Keyboard Support	Enables the use of Deko FAK in broadcast production and post-production facilities.
IBM BladeCenter® Support	Paragon II is now the premier KVM solution for IBM BladeCenter customers. Two new Paragon II CIMs have been created (USB and PS/2 versions) for connecting to the BladeCenter chassis.
Cortron™ Keyboard Support	A variety of military and commercial IT operations require rugged equipment to meet the environmental challenges they often face. As a result, military and commercial organizations routinely deploy Cortron keyboards to meet the demands of those environments. Paragon II supports Cortron’s rugged keyboards, extending Paragon’s value to organizations that operate in harsh conditions.
Kensington Expert Mouse® and Turbo Mouse Trackball Support	While supported on both Macintosh® and Windows platforms, Kensington Expert Mouse and Turbo Mouse Trackball products are very popular with Mac users, and rank highest among third-party peripheral vendors.
Audio/Video Router Control	
Special NVISION® NV5128 Router Control Interface	Paragon II now includes a control interface for NVISION’s NV5128, audio/video router. This feature not only delivers audio to Paragon II users, but will also allow them to switch digital video to their workstation. The control interface is built into Paragon Manager, which continuously monitors usage of the P2-UMT, and through the NV5128, “switches” audio and/or digital video to users based on easy mapping that’s configured by an administrator.