

Paragon

Control over 10,000 servers
from up to 64 user consoles
using Category 5 UTP cable



Enterprise-class solution

The Paragon family of server management systems represents a major advancement in KVM switch technology and performance, perfectly suited for today's enterprise-class data centers. Paragon is an intelligent, modular system that enables multiple simultaneous users to achieve secure out-of-band access and control of multi-platform servers. Plug and play components are connected using Category 5 UTP cable, extending the maximum distance between users and servers to 300 meters.

2-user

UMT242

up to 42 servers

4-user

UMT442

up to 42 servers

8-user

UMT8

up to 32 servers

16-user

UMT1664

up to 64 servers

Innovative modular architecture

Paragon distributes switching and control functions across three modular, intelligent building blocks: a Matrix Switching Unit, one User Station per user console and one Computer Interface Module (CIM) for each connected server. Distributing KVM switching functions satisfies the most challenging server management requirements: meeting space, distance and capacity needs; eliminating any single point of failure; supporting scalable growth; reducing total cost of ownership.

Models to support 2, 4, 8, and 16 users

Raritan provides for economical growth by offering Paragon Matrix Switching Units in 2-user and 4-user models to access up to 42 servers, an 8-user model to access up to 32 servers, and a 16-user model to access up to 64 servers. All four models can be cascaded to expand total capacity to more than 10,000 servers. User Stations enable access to all connected servers as well as to a local desktop PC. CIMs are available to connect to PS/2, Sun, serial, and USB ports.

The Paragon Solution

System Architecture

Paragon distributes the switching and control functions across three modular, intelligent building blocks.

Matrix Switching Unit.

An intelligent, non-blocked control module that connects users to servers. Its high port density and streamlined design with RJ45 connectors is ideal for densely packed racks.



User Station.

Connects each user console (keyboard, monitor, and mouse) to the Matrix Switching Unit. It is designed to fit conveniently under the monitor.



Computer Interface Module (CIM).

Provides keep-alive keyboard/mouse emulation at the server. Just plug it into the server's keyboard, monitor, and mouse ports and connect it to the Matrix Switching Unit with a single Category 5 UTP cable. CIMs also provide the convenience of fail-safe local server access.

Features

Paragon delivers what the market demands.

- 1U design supports 2, 4, 8 users, up to 42 servers
- 2U design supports 16 users, up to 64 servers
- Expand to 32 users with Raritan's UKVMP2 or CIM-PAC8R
- Expand to 64 users with Raritan's HUBPAC8
- Expand to 10,000 servers
- 19" rack mounting brackets
- Locate users and computers up to 300m apart
- Simple plug and play, auto-configure installation
- Hot-swappable components
- Platform-specific CIMs for PS/2, Sun, USB, serial devices
- User Station supports both PS/2 and Sun keyboards
- Supports high-resolution video—to 1600 x 1200
- Powerful on-screen user interface for simple operation
- Customized user profiles—up to 512
- Flexible, multi-level security for authorized server access
- Three system operation modes—private, public, share
- Flash firmware upgrades
- User Station supports access to local PC via UKVMSPD
- Add remote access over IP or modem with TeleReach®
- Seamless compatibility with Paragon Ready products such as Raritan's MasterConsole® MXU2 and Z-Series™ and IBMx330 with C2T technology.

Applications

Paragon is a true enterprise-class solution.

When paired with Raritan's TeleReach network interface, Paragon addresses today's need for high performance access to more devices, anytime, anywhere, without compromising data security.

Raritan designed Paragon to be the perfect infrastructure component for all high-density server environments, including:

- *corporate data centers*
- *server farms*
- *co-location facilities*
- *Web hosting facilities*
- *ISPs/ASPs*
- *HW/SW test labs*

Configurations

Paragon stands alone.

Paragon's high port-density, Category 5 cabling, flexibility, and thin form factor also make it ideal for tiered configurations that enable economical non-blocked access to 10,000 servers.

To view typical Paragon configurations for data center management visit:

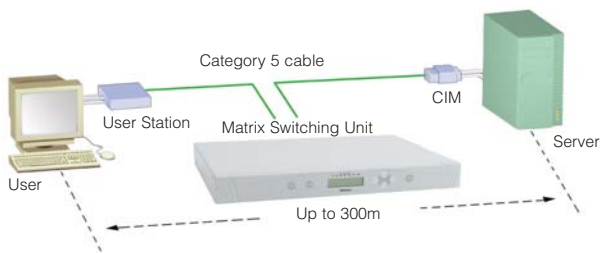
www.raritan.com/products_paragon_configuration.html

Why Paragon?

Paragon Innovations

Paragon is a modular server management system that includes an impressive array of innovations that set it apart from traditional KVM switches. These include:

- **Modular architecture** that effectively distributes KVM switching functions to intelligent components, to satisfy space, distance, and capacity requirements and eliminate any single point of failure;



- **Category 5 UTP cable connections**, enabling extended distances between users and servers up to 300m apart, replacing costly, hard-to manage, distance-limited coaxial cable;

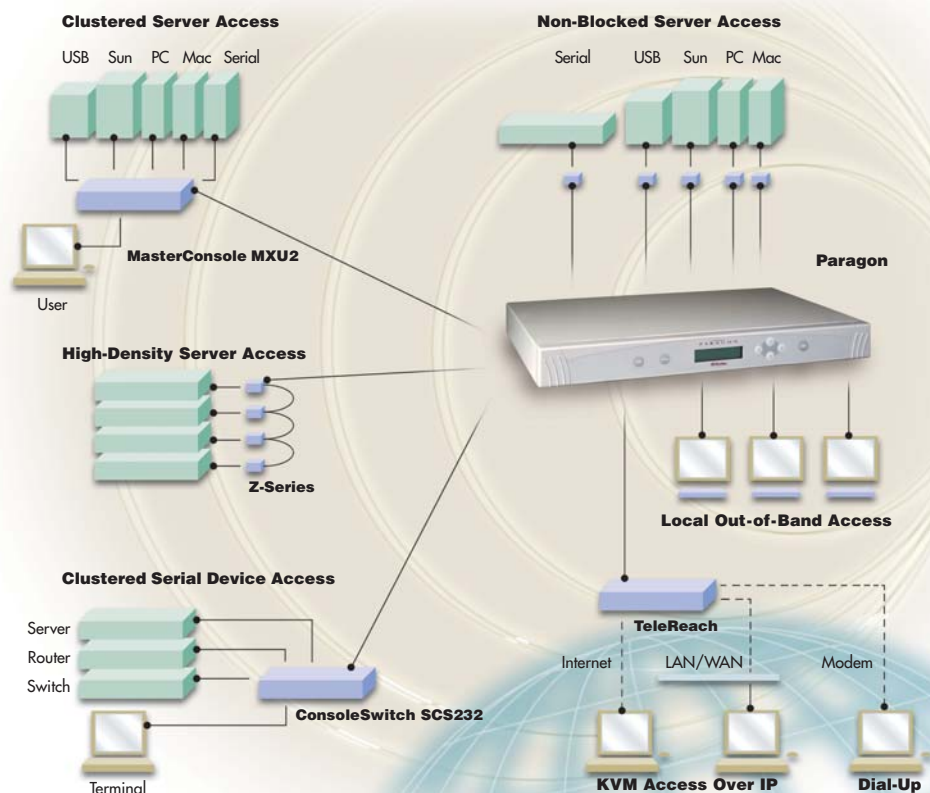
- **High port-density and compact rack design**, resulting in significantly greater rack-space utilization than alternative enterprise KVM solutions;
- **Easy set-up and administration**, featuring plug and play set-up, without the need for additional software or knowledge workers;
- **Scalable and expandable**, so all enterprise-class environments can now enjoy the benefits of Category 5 cabling and modular architecture;
- **Continuous server availability**, providing every connected server with keep-alive emulation and fail-safe server access;
- **Secure, seamless server access** for authorized users with multi-level security, cross-platform compatibility and operating system independence;
- **Total choice of access method**, with the maximum reliability and security of direct Cat 5 connections within 300m, and the ability to add 128-bit SSL-encrypted access over IP with Raritan's TeleReach™.

Paragon-Centric Total Data Center Management

The core technologies built into Paragon enable you to manage all devices in the data center from one or more central locations, totally out-of-band.

These technologies form the backbone of a family of Paragon Ready products that enable

- clustered access to high-density server racks via Category 5 connections
 - **MasterConsole® MXU2**
 - **Z-Series™**
- clustered access to serial devices
 - **ConsoleSwitch™ SCS232**
- remote access over IP to all connected devices, via Internet, LAN/WAN or modem.
 - **TeleReach®**



Matrix Switching Units

UMT1664 (16-User, 64-Channel)



Dimensions	440mm (W) x 273mm (D) x 89mm (H)
Weight	5,36 kg
Power	100V/240V 47/63 Hz 0.6A

UMT8 (8-User, 32-Channel)



Dimensions	440mm (W) x 265mm (D) x 44mm (H)
Weight	3,7 kg
Power	100V/240V 47/63 Hz 0.5A

UMT442 (4-User, 42-Channel)



Dimensions	440mm (W) x 265mm (D) x 44mm (H)
Weight	3,82 kg
Power	100V/240V 47/63 Hz 0.6A

UMT242 (2-User, 42-Channel)



Dimensions	440mm (W) x 265mm (D) x 44mm (H)
Weight	3,8 kg
Power	100V/240V 47/63 Hz 0.6A

User Station

UST1	
Dimensions	290mm (W) x 255mm (D) x 44mm (H)
Weight	1,9 kg
Power	100V/240V 47/63 Hz 0.5A

Accessories

Local Access Device

Connects a local PC for access from one User Station (UST1)

UKVMSPD for PC	
Dimensions (w/o brackets)	41mm (W) x 89mm (D) x 19mm (H)
Weight	0,09 kg
Ports	RJ45 in & out

Expansion Device

Connects to eight PC/Sun CIMs; expand access up to 64 users

HUBPAC8 for PC/Sun	19" rack mounting bracket included
Dimensions (w/o brackets)	437mm (W) x 168mm (D) x 45mm (H)—1U 437mm (W) x 168mm (D) x 45mm (H)
Weight	2 kg

Warranty	One Year
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Computer Interface Modules (CIMs)

Connect to one computer

UKVMPD for PC (<i>DirectConnect</i>)	
Dimensions	41mm (W) x 89mm (D) x 19mm (H)
Weight	0,08 kg

UKVMPD-x330 for IBM x330	
Dimensions	41mm (W) x 89mm (D) x 19mm (H)
Weight	0,08 kg

UKVMC for PC	
UKVMC-x330 for IBM x330	
Dimensions	108mm (W) x 91mm (D) x 23mm (H)
Weight	0,3 kg

AUATC for serial device	
Dimensions	108mm (W) x 91mm (D) x 23mm (H)
Weight	0,3 kg

USKVMPD for Sun (<i>DirectConnect</i>)	
Dimensions	41mm (W) x 89mm (D) x 19mm (H)
Weight	0,06 kg

USKVMC for Sun	
Dimensions	108mm (W) x 91mm (D) x 23mm (H)
Weight	0,3 kg

UUSBPD for USB (<i>DirectConnect</i>)	
Dimensions	41mm (W) x 89mm (D) x 19mm (H)
Weight	0,06 kg

AUPUSBC for USB	
Dimensions	108mm (W) x 91mm (D) x 23mm (H)
Weight	0,3 kg

Connects to one computer; expand access up to 32 users

UKVMP2 for PC	
Dimensions	62mm (W) x 89mm (D) x 27mm (H)
Weight	0,16 kg

Connects to eight computers; expand access up to 32 users

CIM-PAC8R for PC	19" rack mounting bracket included (requires one CCPdd cable per PC)
Dimensions (w/o brackets)	437mm (W) x 168mm (D) x 45mm (H)—1U
Weight	2 kg