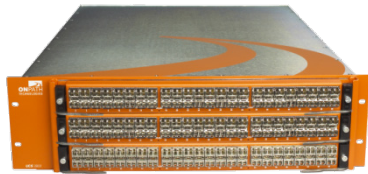


Virtual Instruments SANInsight™ 8GFC Rover

Models RC-024 and RC-072

Virtual Instruments products provide an unprecedented scope of monitoring and prevention capabilities for complex, virtualized infrastructures running mission-critical applications on Fibre Channel SANs



RC-072

- Extends the reach and lowers the cost of VirtualWisdom for virtual infrastructure monitoring
- User-configurable ratios and intervals optimize monitoring across varying environments
- Supports SAN Performance Probes models ProbeFCX (for 2/4 Gb/s Fibre Channel) and ProbeFC8 (for 2/4/8 Gb/s Fibre Channel)

The Virtual Instruments' SANInsight Rover advances VirtualWisdom® capabilities by maximizing the number of SAN links monitored by VirtualWisdom SAN Performance Probes. The Rover extends the reach of VirtualWisdom and lowers the cost of hardware-based monitoring and analysis in 2/4/8 Gb/s Fibre Channel SANs.

The Rover is an optical-electrical-optical physical layer switch, controlled by VirtualWisdom to automatically switch SAN Performance Probes across monitored SAN links. The 8GFC Rover is available in two chassis models accommodating one or one to three 24-link Blades, supporting Fibre Channel links operating at up to 8 Gb/s. The Rover is deployed between a Virtual Instruments Traffic Access Point (TAP) and the SAN Performance Probe. TAPs are installed onto live SAN links to split a small percentage of the optical signal to the Rover, providing downstream SAN Performance Probe model ProbeFCX and ProbeFC8 devices with out-of-band, full line rate, real time access to the live SAN traffic.

The Rover automatically switches Probe links across the connected SAN links, providing cost- and space-efficient scaling of Probe monitoring capabilities across large numbers of SAN links. The SAN links are configured into Roving Groups, across which Probe links are switched on an automated time basis. User configuration of the Roving Group determines the number of SAN links across which a given Probe link is shared (referred to as the monitoring ratio) and the length of time each SAN link is monitored before the Probe link is switched to the next link.

A Rover can be configured with multiple Roving Groups with varying monitoring ratios and link speeds. In the simplest configuration, the SAN and Probe links are divided equally across Roving Groups with identical monitoring intervals. For example, an RC-072 Chassis supports 72 total links, 64 SAN links and 8 ProbeFC8 links. When 8 Roving Groups are configured each Probe link is shared across 8 SAN links, this creates an 8:1 monitoring ratio.

More varied configurations can be created to align the frequency and duration of metric collection with the load profile and importance of the SAN links. In the example above, creating 4 Roving Groups of 4 SAN links each would significantly increase the monitoring frequency for those critical links, while the balance of 48 less-critical links would be configured into 4 other Roving Groups of 12 links each, with correspondingly longer time intervals between monitoring

CONFIGURATION AND SPECIFICATIONS

The SANInsight 8GFC Rover is a configured system of chassis, blades, and licenses.

Rover Chassis

Two chassis are available:

- The RC-024 Rover Chassis mounts a single RB-024 blade, supporting a total of 24 links.
- The RC-072 Rover Chassis mounts up to three RB-024 Rover Blades, each supporting a total of 24 links, for a total of up to 72 links.

Chassis Specifications

Model		RC-024 Rover Chassis	RC-072 Rover Chassis
Blade Slots		One	Three
Dimensions	Height	1U (1.75 in, 4.45 cm)	3U (5.25 in / 13.34 cm)
	Width	Across ears 19 in / 48.26 cm; across body 17.65 in / 44.83 cm)	Across ears 19 in / 48.26 cm; across body 17.65 in / 44.83 cm)
	Overall depth	20 in / 50.8 cm	25 in / 63.5 cm
	Projection from front rails	1.25 in / 3.18 cm	1.25 in / 3.18 cm
	Additional depth allowance for cable clearance	Minimum 5 in / 12.7 cm to both front and rear	Minimum 5 in / 12.7 cm front, 3.5 in / 8.89 cm rear
	Weight, excluding blades	20 lbs / 9.07 kg	50 lbs / 22.68 kg
Cooling	Airflow Direction	Side-to-side, right to left	Side-to-side, right to left
	Fans	One assembly, fixed	One assembly, hot swappable
Power	Supplies	1, fixed, C14 inlet	2, hot swap redundant, C14 inlets
	Voltage	1 x 15A @ 120/220 VAC 100-240V AC, 50-60 Hz, 4A @ 100V	2 x 15A @ 120/220 VAC 100-240V AC, 50-60 Hz, 10A @ 100V
	Draw	Maximum 400W (typical 230W)	Maximum 1,000W (typical 702W)
Switching Capabilities		Singlecast, any Link to any Link	Singlecast, any Link to any Link across Blades

Rover Blades

The RB-024 Rover Blade is a 24-Link, optical-electrical-optical Blade that mounts in the RC-024 and RC-072 Rover Chassis. It is available as model RB-024-08MM, which includes qty (48) 2/4/8 Gb/s Fibre Channel SFP+ transceivers.

Licenses

Software licenses are purchased and installed per Rover Chassis to enable a specific number of output links at line speeds up to either 4 or 8 Gb/s. Available software licenses:

Model Number	Capacity
VW Key RC-0402	(2) output links, 2/4 Gb/s Fibre Channel
VW Key RC-0404	(4) output links, 2/4 Gb/s Fibre Channel
VW Key RC-0408	(8) output links, 2/4 Gb/s Fibre Channel
VW Key RC-0416	(16) output links, 2/4 Gb/s Fibre Channel
VW Key RC-0802	(2) output links, 2/4/8 Gb/s Fibre Channel
VW Key RC-0804	(4) output links, 2/4/8 Gb/s Fibre Channel
VW Key RC-0808	(8) output links, 2/4/8 Gb/s Fibre Channel
VW Key RC-0816	(16) output links, 2/4/8 Gb/s Fibre Channel

