

Siemon's VersaPOD increases cabinet density and thermal efficiency in the data centre

افزایش ظرفیت رک ها و راندمان حرارتی در مراکز داده با استفاده از ورساپاد سیمون

Siemon has launched a new space saving data centre solution, the VersaPOD, which integrates bayed cabinets with innovative high density, zero-U vertical patching, and also provides powerful cable management features.

The VersaPOD offers a highly flexible design approach, combined with exceptional cabling and equipment density, while also providing excellent accessibility and thermal efficiency.

A range of integrated zero-U vertical patch panels (VPPs) available for use with the VersaPOD support both copper and fibre patching. The VPPs supply up to 288 patching ports in the front and/or rear vertical gap between two bayed cabinets without taking up horizontal mounting space.

By freeing up horizontal cabinet space, greater active equipment density is achieved. This means that in a typical data centre, the number of cabinets needed can be reduced by up to 20%, saving valuable floor space.

Also, by using the vertical space next to the vertical mounting rails, the VPPs provide ideal patching proximity to active equipment, minimising patch cord runs and slack congestion. Each VPP can be slid forward from its mounting position, providing access to the rear of the VPP. This allows for easy insertion and removal of copper and fibre outlets, pre-terminated trunking cables, or plug and play fibre assemblies.

To add flexibility, a 6-U VPP option is available for mounting up to twelve 1 RMS or four 3RMS horizontal patch panels or fibre enclosures. Vertical 4-inch cable management fingers can be mounted alongside each VPP to enable routing of copper patch cords or fibre jumpers between patching fields, as well as in cabinet-to-cabinet connections. Recessed corner posts provide unimpeded cabling access across the entire front and rear of multiple bayed units.

Siemon's VersaPOD combines zero-U vertical patching with 45U of highly configurable horizontal rack mount spaces. Each cabinet is constructed using a welded cold-rolled steel frame with an industrial black finish and measures 760mm wide by 1000mm deep. An open floor design and multiple roof entry points allow flexible routing of horizontal and backbone cable.

The VersaPOD's design offers full accessibility from the front and rear of each bayed unit. Dual hinged front doors open from both left and right and are easily removed. Split rear doors feature an innovative quad hinge design, which means each split door can be independently opened in either direction or removed. All doors and side panels are lockable to prevent unauthorised access to critical equipment connections.

With energy costs continuing to rise, the VersaPOD has been designed to help optimise thermal management in the data centre. For example, perforated front and rear doors offer an airflow of more than 70%. In situations where cabinet-to-cabinet isolation is desired, optional cable trays minimise airflow between bayed cabinets, while providing cable routing and slack management of horizontal or backbone cables terminated behind the VPPs. Each VersaPOD unit includes provisions for roof mounted cooling fans and additional accessories to promote hot aisle/cold aisle isolation, such as brush guards and grommets for cable access points.

"From the start the VersaPOD has been designed as an integrated data centre enclosure system, not just a cabinet," explained Mike Boisseau, Product Manager. "Features like the zero-U vertical patch panels, vertical cable management channels and the many accessibility options were designed to work seamlessly together. Our goal was to solve the most critical data centre needs in a single, integrated, aesthetically pleasing and scalable solution. We believe the VersaPOD has achieved this goal."

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