Available with any Siemon cabinet, rack or enclosure, Siemon’s V-Built™ Custom Preconfigured Solutions are preloaded with Siemon components to meet any data center or network infrastructure need – from colocations and edge computing, to the TR and the remote distribution point.

Configured through a collaborative design process with Siemon’s data center design experts, V-Builts start with a Siemon VersaPOD®, V800™ or V600™ cabinet, rack or wall mount enclosure. These are then preconfigured with Siemon components, including fiber and copper connectivity, preterminated cable assemblies, PDUs, cable management and accessories.

Identified by a single customer-specific part number and price, V-Builts are assembled and packaged at regional Siemon manufacturing facilities and delivered to the site ready to connect the cabling and install active equipment.

One Part Number, One Price ... Ready to Roll
**Benefits of V-Built™**

**EFFICIENT**
Arrives on site ready for active equipment, reducing deployment time and labor by up to 30%.*

**CONVENIENT**
Single part number ordering and price ease replication in modular data centers and multisite deployments.

**FLEXIBLE**
Improved scalability and consistency with predictable BOM, costs and processes.

**ECO-FRIENDLY**
Supports green initiatives with less packaging waste and cardboard dust contamination, and a lower carbon footprint.

*Based on documentation development, movement and staging of materials, opening and mounting components, and recycling and disposal of packaging.
Preconfigured for Any and All Data Center Architectures

Siemon V-Built™ Cabinets and Racks can be designed and preloaded with any combination of Siemon components – fiber and copper connectivity, high speed interconnects, PDUs, cable management and accessories like fans and equipment shelves – to meet the needs of any data center space regardless of the architecture, from the entrance facility, main distribution area and storage area network (SAN), to Top-of-Rack, End-of-Row or Middle-of-Row equipment distribution areas.

V-Built Top-of-Rack Cabinets
V-Builts can be configured for a Top-of-Rack architecture where switches in each cabinet connect to servers in the same cabinet via shorter direct attach high speed interconnects such as Siemon's SFP+ or SFP28 cable assemblies. These cabinets can be outfitted with PDUs for active equipment as well as cooling fans to support higher heat loads.

V-Built Server/Storage Cabinets
V-Built server cabinets can include PDUs for servers and copper and fiber connectivity for connections to access switches and SANs. Similar configurations can also be deployed in SANs for housing storage devices.
V-Built Racks
Racks are used in a data center's main distribution area to support core network equipment as well as entrance facility to support provider equipment and demarcation points to the end user's systems and backbone links to other buildings, in a campus environment. V-Built Racks can be populated with PDU's to deliver power to equipment and copper and fiber patch panels to support backbone connections. V-Built racks are also ideal for housing edge equipment and connectivity in telecommunications rooms throughout a facility.

V-Built Networking Cabinets
V-Built networking cabinets are ideal End-of-Row and Middle-of-Row architectures, which are popular for data centers where each row of cabinets is dedicated to a specific purpose and where growth is accomplished on a row-by-row basis. These configurations are well suited for V-Built networking cabinets that are placed at the end or middle location to house access switches that support the servers in that row. They typically include patch panels and patch cords that serve as the connection point between the switch ports and the patch panels in the server cabinets. Networking cabinets can also be preconfigured for housing core switch cabinets in the main distribution area or for switches in the SAN.
V-Built Custom Preconfigured Solutions are ideal for any size and type of data center requiring fast deployment. These solutions are especially well suited for any data center utilizing a modular design strategy with repeatable groups of cabinets, such as cloud and pod-based data centers.

Multiple V-Built part numbers can even be grouped together to form rows of cabinets or two symmetrical rows of cabinets configured in a hot/cold aisle layout with containment systems, also often referred to as a pod. As shown in the example below, deploying an 18-cabinet pod consisting of two rows of 9 V-Built cabinets saves 30% on time and labor versus installing individual components. A single part number can also be developed for the complete pod configuration.

### V-Built™ Data Center Pod Configurations

V-Built Custom Preconfigured Solutions are ideal for any size and type of data center requiring fast deployment. These solutions are especially well suited for any data center utilizing a modular design strategy with repeatable groups of cabinets, such as cloud and pod-based data centers.

Multiple V-Built part numbers can even be grouped together to form rows of cabinets or two symmetrical rows of cabinets configured in a hot/cold aisle layout with containment systems, also often referred to as a pod. As shown in the example below, deploying an 18-cabinet pod consisting of two rows of 9 V-Built cabinets saves 30% on time and labor versus installing individual components. A single part number can also be developed for the complete pod configuration.

<table>
<thead>
<tr>
<th>V-Built™</th>
<th>284 Labor Hours</th>
<th>$5,500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Components</td>
<td>400 Labor Hours</td>
<td>$7,745</td>
</tr>
</tbody>
</table>

#### 30% SAVINGS
V-Built™ Custom Preconfigured Solutions can be preloaded with any Siemon component to meet specific data center or network infrastructure needs.

- Shielded and unshielded copper connectivity, including angled and flat patch panels and MapIT™ G2 Automated Infrastructure Management (AIM) intelligent patch panels
- LightStack® and LightStack 8 Ultra High Density Plug and Play systems to support 10 to 100 Gig and beyond, as well as a variety of medium and high-density fiber enclosures
- Zero-U vertical cable managers, blanking panels and PDU mounting brackets
- Vertical and horizontal cable managers, blanking panels, brush guards, fans, PDU brackets, equipment shelves and lid divider panels
- Horizontal and vertical PDUs with varying degrees of intelligent functionality and a variety of input currents, voltages and outlet options

Our team of data center design experts is ready to help you determine the right configuration components for your V-Built Preconfigured Solution. Following a collaborative design process, you will receive your configuration and bill of materials for review. Once approved, your V-Built will be preconfigured at one of Siemon’s regional manufacturing sites and delivered to your location ready to receive active equipment and make the final connections. Components can also be kitted and shipped flat-pack style outside of North America.
Siemon’s V600™ cabinet provides a robust, cost-effective enclosure with high flow doors that is ideal for housing equipment such as servers and storage devices. As an example of a server cabinet, a V600 V-Built™ can be preconfigured with copper patch panels that allow for fast, easy deployment of high performance copper trunks to connect servers to access switches. It can include a high density fiber enclosure populated with fiber modules to provide fiber connectivity for connecting servers to SANs.

Premounted horizontal cable managers allow for routing and protection of patch cords and jumpers, while thermal blanking panels can also be included to improve efficiency by preventing airflow through what will be vacant rack mount spaces. A V600 V-Built can also be preconfigured with vertical PDUs for distributing power to servers and vertical cable trays that feature keyholes for PDU mounting and cutouts for cable tie attachment. Equipment mounting rails are adjustable to accommodate various server depths and PDU mounting configurations. A premounted ground bar facilitates bonding to the telecommunications grounding system, while tool-less D-Rings can be included for installing in the openings of the vertical trays for vertical cable management.
Siemon’s V800™ cabinet features valuable Zero-U space on each side of the equipment rails, excellent accessibility and thermal efficiency that are ideal for high-density networking applications. As an example of a networking cabinet placed at End of Row or Middle of Row in the data center, a V800 V-Built can be preconfigured with copper patch panels for fast, easy deployment of high performance copper trunks to connect access switches to servers within the row or pod of cabinets. High density fiber enclosures populated with fiber modules can also be preconfigured into the cabinets to provide fiber uplinks to higher level aggregation or core switches.

V800 V-Builts can include vertical PDUs for distributing power to active equipment and vertical cable trays in the rear of the cabinet feature keyholes for PDU mounting on each side of the cabinet. Zero-U vertical managers can be installed for routing and managing cables. The inclusion of horizontal cable manager allows for horizontal routing of copper patch cords and fiber jumpers between the vertical managers on each side of the cabinet, and the addition of vertical cable trays enables management of cables from server cabinets to the patch panels. This V-Built can also include a premounted ground bar to facilitate bonding to the telecommunications grounding system.

Common Networking Cabinet Configuration

Siemon’s V800™ cabinet features valuable Zero-U space on each side of the equipment rails, excellent accessibility and thermal efficiency that are ideal for high-density networking applications. As an example of a networking cabinet placed at End of Row or Middle of Row in the data center, a V800 V-Built can be preconfigured with copper patch panels for fast, easy deployment of high performance copper trunks to connect access switches to servers within the row or pod of cabinets. High density fiber enclosures populated with fiber modules can also be preconfigured into the cabinets to provide fiber uplinks to higher level aggregation or core switches.

V800 V-Builts can include vertical PDUs for distributing power to active equipment and vertical cable trays in the rear of the cabinet feature keyholes for PDU mounting on each side of the cabinet. Zero-U vertical managers can be installed for routing and managing cables. The inclusion of horizontal cable manager allows for horizontal routing of copper patch cords and fiber jumpers between the vertical managers on each side of the cabinet, and the addition of vertical cable trays enables management of cables from server cabinets to the patch panels. This V-Built can also include a premounted ground bar to facilitate bonding to the telecommunications grounding system.
Common Rack Configuration

Siemon’s adjustable depth VersaPOD® 4-Post Rack provides a stable platform for mounting active equipment in a variety of network infrastructure spaces, from the main entrance facility and data center to the telecommunications room (TR).

As a sample of a common TR rack, this 4-post rack V-Built™ can be preconfigured with a 1U fiber enclosure and LC adapter plates for backbone fiber connections, patch panels for horizontal cabling terminations and horizontal managers for managing the patch cords to the active equipment. It also can include a rack-mount basic PDU for power distribution and a premounted ground bar to facilitate bonding to the telecommunications grounding system.

Racks are used in a data center’s main distribution area to support core network equipment as well as entrance facility to support provider equipment and demarcation points to the end user’s systems and backbone links to other buildings in a campus environment.
V-Built™ Wall Mount Distribution Point Configuration

Siemon’s Wall Mount Cabinet saves valuable floor space while providing a cost-effective means to secure and protect network equipment from dust, tampering and other hazards. Ideal for consolidation points, a mini TR or remote network distribution, the Wall Mount Cabinet features easy rear access, adjustable mounting rail system and fully integrated vertical cable management at the front and rear.

As a sample of a distribution point or mini TR, a Wall Mount V-Built can be preconfigured with an extra set of mounting rails for equipment requiring four-point mounting, a patch panel for horizontal cabling terminations and horizontal managers for managing the cables. It can also include a rack-mount basic PDU for power distribution, a vented equipment shelf and a top-mounting cooling fan to support the active equipment. A premounted ground bar can be included to facilitate bonding to the telecommunications grounding system.
Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.