



**Converge**

Intelligent Building Solutions





## Architecture for an Intelligent Future

Intelligent buildings are the future of sustainability and operational efficiency, made possible by the integration of low-voltage applications. To support this integration, Wi-Fi, AV, security, PoE lighting, distributed antenna systems (DAS) and building automation systems are converging over an IP-based platform with endpoint devices powered over Ethernet cabling.

Siemon's **Digital Building Architecture** gives building owners and operators a value-added alternative to the traditional approach of deploying disparate low-voltage systems that are designed and managed in separate silos. This innovative solution supports the design, installation and administration of integrated systems, enabling substantial capital and operational savings, while improving the building occupant experience. Siemon's **Digital Building Delivery** is enabled by Siemon's expert partner ecosystem collaborating with your project management team, from construction planning through implementation and delivery. The result is a robust, scalable standards-compliant infrastructure that will support your digital needs as technology evolves.



### Lower CapEx Spending

Converged and integrated systems can save up to \$2 million per 100,000 square feet



### Lower OpEx Spending

Converged and integrated systems deliver up to a 30% savings on annual operating costs



### Lower Power Deployment Costs

Using PoE to power end devices reduces power deployment costs by 75% over dedicated AC power runs



### Enhanced Occupant Experience

Enables custom-controlled environments for improved health, safety and productivity



### Simplified Decision Making and Control

Eliminates the complexity of selecting, designing and implementing disparate systems and day two administration



### Sustainable Digital Building Life

Ensures support for all emerging and future IP-based technologies and applications

APPLICATION	LOW POWER	HIGH POWER
	LOW SPEED	HIGH SPEED
<b>Building Automation**</b> <ul style="list-style-type: none"> <li>• Access Control</li> <li>• Energy Metering</li> <li>• PoE Clocks</li> <li>• Time &amp; Attendance</li> <li>• Asset Tracking</li> <li>• HVAC &amp; Elevator Control</li> <li>• Public Address/Paging</li> </ul>	☑	
<b>AV Systems</b> <ul style="list-style-type: none"> <li>• HDBase-T</li> <li>• SDVoE</li> <li>• AV over IP</li> <li>• Broadcast/RGB</li> <li>• Digital Signage</li> <li>• Dante Audio</li> </ul>		☑
<b>DAS</b> <ul style="list-style-type: none"> <li>• Small Cell</li> <li>• Public Safety</li> </ul>		☑
<b>LAN</b> <ul style="list-style-type: none"> <li>• Voice/Data</li> <li>• Point of Sale</li> <li>• PoE Computing</li> </ul>		☑
<b>PoE Lighting</b> <ul style="list-style-type: none"> <li>• Digital Ceiling Application</li> <li>• Li-Fi*</li> </ul>		☑
<b>Security Surveillance**</b>	☑	☑
<b>High Throughput WiFi</b> <ul style="list-style-type: none"> <li>• Wi-Fi 5</li> <li>• Wi-Fi 6</li> <li>• Wi-Fi 7*</li> </ul>		☑

\* Emerging technology

\*\* High Power/High Speed cabling systems support all applications, enabling a unified cabling infrastructure and support for advanced and future technologies.

## Digital Building Architecture

Not every low-voltage system in an intelligent building is the same. Many building automation systems and devices operate at speeds lower than 1 Gb/s and require remote powering below 30 Watts, while others like Wi-Fi, AV and DAS require 10 Gb/s speeds and remote powering levels that reach as high as 100 Watts.

Siemon's **Digital Building Architecture** is designed to support all converged low-voltage applications – both today and tomorrow – delivering optimum sustainability and savings over the life of the building.

- Supports all low-voltage applications regardless of transmission speed and power
- Features PowerGUARD™ technology for superior remote powering reliability
- Eliminates multiple cable types to reduce inventory and the cost of moves, adds and changes
- Includes application guides for each low voltage system to optimize design, performance and administration

## Digital Building Delivery

Siemon's renowned innovation, technical service, logistics and global network of technology partners together deliver the architecture that best fits your technology roadmap and your budget, while meeting project deliverables and ensuring return on investment.

- Expert guidance on selecting and deploying the architecture, including scope of work, detailed layouts and bills of material
- Complete team of technology partners working together to design and deliver systems and devices that leverage the Digital Building Architecture for maximum integration and efficiency
- Global network of Siemon Certified Installers and Digital Lighting Partners (DLPs) trained to deploy consistent, reliable intelligent building infrastructure
- Excellent supply chain leveraging global distribution partners to ensure local, economical on-time material delivery and day two moves, adds and changes support

## Simple Choice for Peace of Mind





## Backed by Industry Leadership

Established in 1903, the Siemon brand stands for technology leadership, world-class quality, innovative services and solutions, and environmental stewardship. The world's leading organizations specify Siemon.

- Leading participation in industry standards and dedication to understanding and supporting the needs of the market
- Significant investment in R&D with more than 400 patents
- ISO 9001 and ISO 14001 certified vertically integrated manufacturing and automation
- Greenest physical layer manufacturer—global 179% carbon negativity and zero-landfill status

## A Strong Partner Network

Siemon's ConvergeIT Intelligent Building Solutions include a partner ecosystem that brings together the **Digital Building Architecture** and **Digital Building Delivery** with a team of like-minded installation, distribution and technology partners.

- Global network of installers, integrators and consultants with intelligent building design and deployment expertise
- Partnerships with complementary manufacturers of intelligent building systems and devices for complete turnkey solutions
- Founding partner within the Cisco Digital Building Ecosystem

# Harvest CapEX and OpEX Savings Future Proof Your Physical Layer Infrastructure Enhance Your Building Occupant Experience



Contact us now to access Siemon's low-voltage application guides and learn more about how Digital Building Architecture and Digital Building Delivery can optimize your building.

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