Siemon’s Category 7 solution, OM4 fiber cables, and Z-PLUG field terminated plugs put us ahead of the game. We are very confident that our buildings are now future proof for any requirement for the next 10 to 15 years.”

 Satish P. Chandra, Chairman and Managing Director for Global Tech Park

Siemon Supports Advanced Technology at Two State-of-the-Art Tech Parks

**Products:** Z-MAX® Cabling System, Z-PLUG™ Field Terminated Plug, XGLO™ Fiber Optic Cabling Systems

**Location:** Bangalore and Coimbatore, India

**Application:** Voice, data, Wi-Fi, security, and audiovisual (AV)

**Overview:** Global Tech Park (GTP) is an all-encompassing firm headquartered in Bengaluru, India that provides complete infrastructure solutions and specializes in turnkey projects, infrastructure consultation, and property management solutions. With an excellent track record in projects ranging from IT parks and logistics parks, to retail and living spaces around the world, GTP recently completed two sizeable tech park projects built to suit a leading supplier of technology and services in the areas of mobility solutions, industrial technology, consumer goods, and energy and building technology. The first Bangalore tech park project is a state-of-the-art 180,000 square-foot research and technology center. This was followed by another 233,000 square-foot tech park in Coimbatore dedicated to engineering services. The two projects together house 4200 workstations along with meeting rooms, board rooms, and multiple labs. To support low-voltage IT systems throughout both facilities, GTP and their client tenant needed high-performance cabling and connectivity from a trusted manufacturer with the quality and performance to meet the specification.
With a breadth of product to meet the specification and provide plenty of headroom to deliver bandwidth and power over Ethernet (PoE) for both current and future needs, along with value-added services and superior technical support, Siemon was ultimately chosen as the solutions provider for both tech park projects. Siemon Certified Installer (CI) Lantro Technologies (www.lantro.com) provided structured cabling design, installation, and maintenance services for the project.

"We sought to completely future-proof the process and eliminate the possibility of a substandard, high-cost, inefficient design that might require removal and replacement of the IT infrastructure in the future as needs expand. We knew that Siemon, with their class-leading products and solutions, could help us achieve all parameters of this challenging project," said Shiv Deviah, Country Manager for Lantro.

To support bandwidth speeds up to 10 Gbps for the latest Wi-Fi 6 technology and future proofing capabilities, the specification for the Bangalore project called for category 7/class F fully-shielded cable with familiar shielded RJ45 connectivity. They also needed to ensure that the power to a variety of end devices such as Wi-Fi access points and surveillance cameras. In a bidding process that evaluated multiple leading manufacturers, Siemon demonstrated the ability of their category 7 cable to support transmission performance beyond 600 MHz for extra headroom and ensure mechanical reliability in high-temperature environments up to 75°C to prevent degradation due to heat rise in PoE applications. The ability to terminate the category 7 cable to Siemon’s Z-MAX shielded category 6A connectivity also enabled a familiar RJ45 interface while ensuring additional support of PoE with patented crowned contact geometry that prevents arcing damage in the mated position. To improve flexibility and reduce cost, Siemon proposed its innovative Z-PLUG field terminated plug for quick, custom-length direct connections to devices.

"In addition to demonstrating the headroom needed to support high-throughput WiFi and support Type 4 PoE applications up to 90 Watts, we provided samples of our Z-PLUG field-terminated plug that enables using modular plug-terminated links for direct connection to access points in the ceiling without the need for an additional box, outlet, and patch cord," explains Narasimha Murthy, regional sales manager for Siemon. “That combined with our competitive price and availability to meet the fast delivery timeline of just four weeks impressed both GTP and their client.”

Siemon’s XGLO™ Fiber Optic Cabling System was selected for the OM4 multimode fiber backbone infrastructure to connect the 12 telecommunications rooms and server rooms across the Bangalore tech park campus. This included Siemon’s High-Density FCP3 fiber plug-and-play system with easy snap-in modules to connect, protect, and manage fiber connections. For patching to active equipment, Lantro used Siemon’s innovative multimode LC BladePatch® jumpers that feature a revolutionary push-pull boot design to control the latch for easy access and removal and a patented rotating latch to facilitate polarity changes in the field without damaging fiber.
Following the highly successful project that exceeded the customer’s expectation and met all schedule, budget, and performance requirements, Siemon was selected for the second tech park project in Coimbatore with similar technology requirements. The Coimbatore tech park deployed Siemon copper and fiber cabling systems, including the Z-MAX category 6A shielded cabling system with Z-PLUG field-terminated plugs and XGLO Fiber Optic Cabling Systems.

“The Bangalore project was a huge success with GTP, Lantro, and the end user customer all very pleased with our ability to meet all performance and logistical requirements. It was a big boost for us that led to our win on the Coimbatore project,” says Murthy.

“Facility expansion involves a multi-dimensional strategy. Future-proofing our IT infrastructure to prepare for new technologies and PoE devices is key to our success,” said Satish P. Chandra, Chairman and Managing Director for Global Tech Park “The new systems and applications needed a state-of-art IT infrastructure with extra headroom for any future specific client requirement. Siemon’s Category 7 solution, OM4 fiber cables, and Z-PLUG field-terminated plugs put us ahead of the game. We are very confident that our buildings are now future proof for any requirement for the next 10 to 15 years.”