



Powering a New Era of Digital Campus Connectivity.

Customer Profile

 **Customer Name:** Thapar University

 **Location:** Patiala, Punjab

 **Industry:** Education

 **Type:** University

Project Overview

Thapar University, one of Punjab's leading higher education institutions, required a next-generation wireless infrastructure to enhance connectivity across hostel accommodations and academic facilities across the widely spread university campus spread across 250+ acres.

With rising digital learning demands and increasing device density per student, the university aimed to modernize its campus network for seamless, high-speed Wi-Fi access. The institution also wanted a solution that is scalable as since the implementation that began a few years ago, the number of students till today have tripled.

Project Scope

Enhanced Wi-Fi Experience in Hostel Rooms and Campus Zones, a few departments such as Multimedia and video content creation labs needing high speed Internet

Challenges

- Increasing number of connected devices per student
- High bandwidth demand due to e-learning platforms and streaming
- Maintaining consistent network performance across large campus areas
- Requirement for centralized control and visibility
- Need for better value proposition compared to legacy infrastructure

The institution had been using a competitive infrastructure for over a decade and was evaluating alternatives that could deliver improved performance with optimized investment.



Omada Solution Deployed

To meet the growing digital demand, Omada delivered a high-density Wi-Fi 6 enabled solution.

Deployment Details

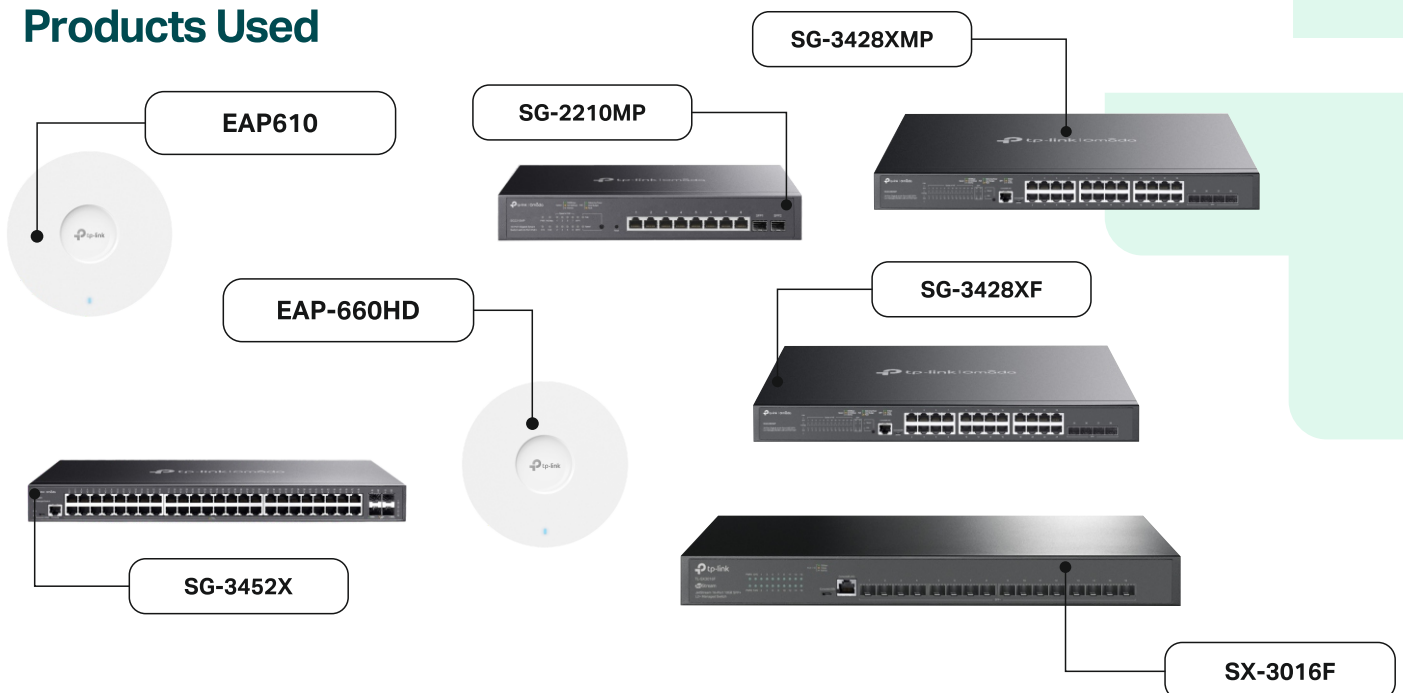
Wi-Fi 6 Access Points (EAP-610 / EAP-660HD)

Managed Switches (SG-3428XMP / SG-3452X / SG-2210MP / SG-3428XF / SX-3016F)

OC-300 Hardware Controller for centralized management

The deployment was carried out across multiple campus buildings, including hostels, academic blocks, and administrative areas.

Products Used





Business Impact

- Seamless Wi-Fi coverage across hostel rooms
- Improved user experience during peak hours
- Centralized monitoring via Omada SDN
- Enhanced scalability for future campus expansion
- Optimized performance-to-cost ratio

Students now enjoy uninterrupted connectivity for online classes, streaming, gaming, and academic research.

Project Highlight

Transitioned from a 15-year legacy from a competitive infrastructure to Omada Wi-Fi 6 architecture, delivering superior performance and long-term scalability while optimizing total cost of ownership.

WATCH THE SUCCESS STORY IN ACTION



Scan the QR code to view the complete **Thapar University** video case study