

ZYXEL



Success Story

India Textile Mall Uses Zyxel GPON Solution to Weave Wired and Wireless Connectivity



Shopping
Mall



Millennium
Market



India



Zyxel
GPON
Solution

Overview

Challenges

- Design streamlined infrastructure for large, multi-level space
- Deploy scalable, futureproof devices for long-term potential
- Unify individual shop networks with one management interface

Results

- Considerable savings from less equipment and cabling
- Over 100 shops get enterprise-level voice, video and data service
- EMS enables central management and monitoring of network

Solutions

- Zyxel GPON Solution

"We were profoundly gratified with Zyxel's solution and the speed with which its Indian branch set up everything. Their proficient staff was vital in developing an approach that suited our needs. When we're looking to upgrade our network in the future, we won't hesitate to contact Zyxel."

Mr. Vijay Narayan
IT Manager, Textile Info Media

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Background

When locals are looking for a variety of high-quality clothing products, there's no better place to visit than the Millennium Mall in the Surat textile market of India. The shopping center is emblematic of the city's rich tradition of fabric design and production. With a wide range of sarees, embroidery, and other clothing options to choose from, the mall's numerous shops and vendors will be able to provide shoppers with a stylish outfit for any occasion.



Challenges

The Millennium Market was in dire need of a way to streamline its network. With more than a hundred shops across several floors and a rapid accumulation of switches and wiring, the mall's network was becoming inefficient and vulnerable to device failure. They soon decided to embark upon a major overhaul of infrastructure, but were

uncertain how to unify the individual shop networks under a simple management system. Even though the mall's management team had been unfamiliar with GPON technology, Zyxel's compelling plan of action convinced them that a fiber optic upgrade would be the answer to all their problems.

Solutions and Benefits

The proposed GPON solution is cost-effective and simple to manage. Since there's less hardware to worry about, the infrastructure doesn't require nearly as much IT maintenance. The scalable, point-to-multipoint design can also be centrally managed with the NetAtlas utility, meaning that each and every shop network be accessed within a single interface.

The **OLT2406 2U Temperature-Hardened 6-slot GPON Optical Line Terminal** is the heart and soul of the solution. With traffic protection provided by redundancy and no-single-point-of-failure tech, the durable fiber network will always be up and running. Temperature-hardened design allows for street cabinet installation—meaning more subscriber potential—and since it's IPv6 ready, the OLT will be a fiber fountain of youth.

But how to transform all the power of the fiber optic line

into usable connectivity? Zyxel's **PMG5318-B20B** and **PMG5317-T20A Wireless N GPON HGUs**. Both GPON ONT devices offer VLAN-capable switch functionality with advanced QoS (Quality of Service), keeping bandwidth under control while allowing for prioritization of network traffic—and saving IT admin from on-the-job headaches. The new network delivers crystal clear communication by landline and intercom, pristine video streaming, and fast, reliable data service to meet any and all business needs. Since IT specialists can oversee and manage the networks of all the shops with ease, customers will always have the undivided attention of their clothing connoisseurs.

Millennium Market was initially attracted to Zyxel's stellar reputation as a designer and producer of networking products. After experiencing their thorough and responsive customer support, the mall can't wait to work again with Zyxel in the future.

Products Used

OLT2406 • 2U Temperature-Hardened 6-slot Chassis GPON OLT



- ITU-T G.984-compliant GPON ports; each port supports 64 ONT
- Two management and switch cards plus two power modules for redundancy
- Four 10 GbE or two GbE uplink ports
- 10 GbE backplane bandwidth per line card slot for non-blocking service
- Four PON or GbE port per line card
- ITU-T G.984.1 type A and type B protection
- Temperature-hardened

PMG5317-T20A • Wireless N GPON HGU with 4-port GbE Switch



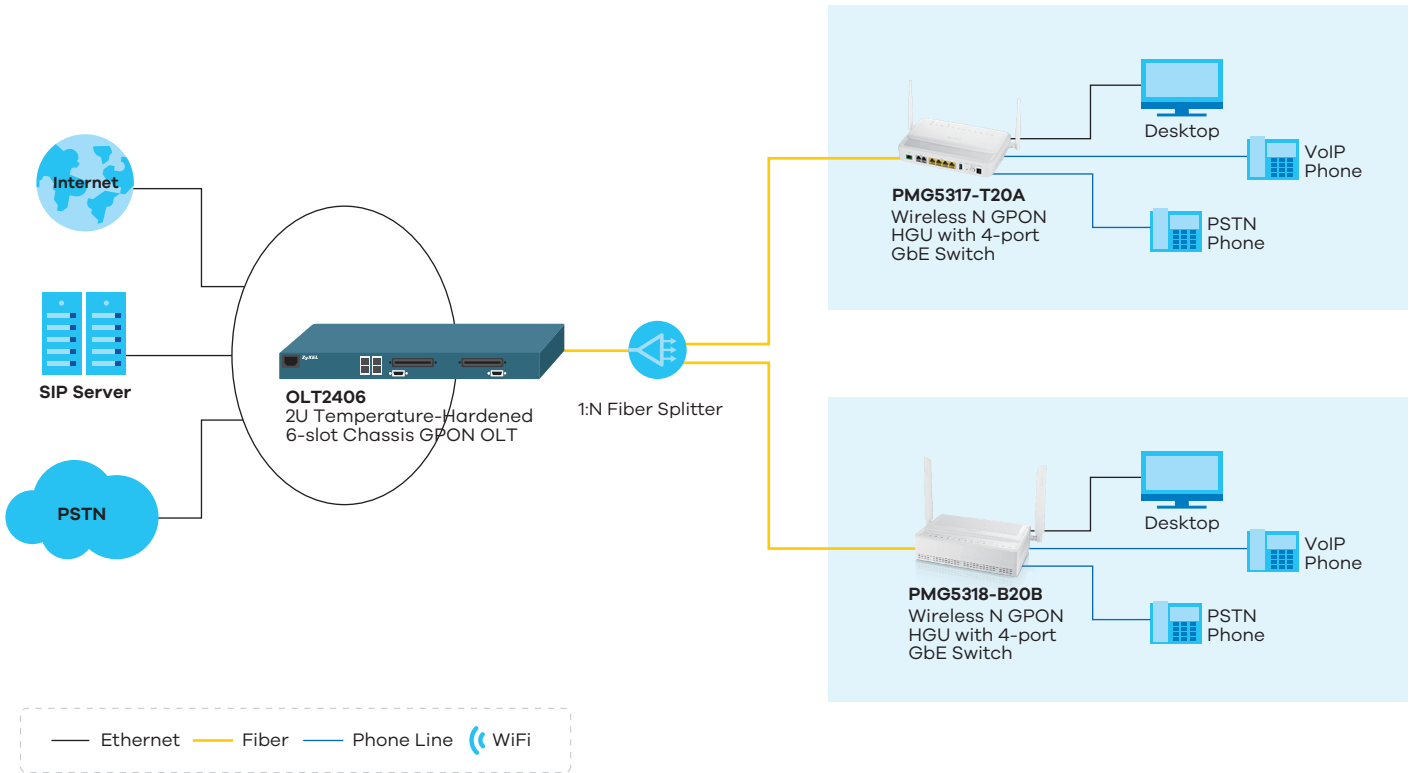
- Integrated Internet services through fiber optics
- 2.4 GHz 11 b/g/n (2x2) for superior performance and coverage
- Advanced QoS ensures quality of triple-play services
- Provisioning and Management

PMG5318-B20B • Wireless N GPON HGU with 4-port GbE Switch



- Integrated Internet services through fiber optics
- 2.4 GHz 11n (2x2) for superior performance and coverage
- Advanced QoS ensures quality of triple-play services

Diagram



About Zyxel Communications

Focused on innovation and customer-centricity, Zyxel Communications has been connecting people to the Internet for nearly 30 years. Our ability to adapt and innovate with networking technology places us at the forefront of creating connectivity for telcos and service providers, business and home users. Zyxel is building the networks of tomorrow, unlocking potential, and meeting the needs of the modern workplace — powering people at work, life, and play. Zyxel, Your Networking Ally.

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