

Zyxel technology powers DIGI Spain's first-of-its-kind 10G offering

Looking to offer Spain's fastest fiber optic service, DIGI Spain needed powerful, reliable edge technology equipment that could enable up to 10 Gbps of speed.

Initially rolling out in Madrid and gradually expanding across the country, the new network – built on XGS-PON architecture – would offer customers the bandwidth needed to handle increased activity at home. With more people working remotely and streaming quickly becoming a primary form of entertainment, DIGI understood it needed to enable WiFi 6 capabilities sooner rather than later. And because a high-speed connection is only as good as customers' ability to access it, DIGI knew it needed to find a trusted, experienced vendor that could provide a reliable ONU.

When it came time for DIGI to branch into the next generation of fiber optic solutions, it knew working with a partner like Zyxel would help it ground its XGS-PON-based offering with infrastructure from a tried-and-true partner.



DIGI currently has more than 3.6 million customers in Spain and belongs to the multinational DIGI Communications, also present in Romania and Italy. With 30 years of experience in telecom, DIGI Communications is the market leader in Romania, offering fiber internet services of up to 10 Gbps, mobile and fixed telephony, cable and satellite television, as well as electricity services.

"Our aim was to become the first 10 Gbps service provider in Spain. This required us to look for a powerful, reliable and advanced technology equipment like Zyxel."

Ismael Serrano Casero
Chief Technology Officer of DIGI

After selecting the AX7501, Dual-Band Wireless AX6000 10G PON IAD with SFP+, DIGI worked closely with Zyxel to help customize the device to its unique needs. It opened a certification process, testing the device to ensure it could truly enable up to 10G in the field, and remaining in contact with Zyxel's R&D team and our partner – Solutions30 for any necessary tweaks.

Customization and tests were successful, and the device was ready for sale in September 2021 – helping DIGI beat competitors to become the first 10G service provider in Spain.

With the new PRO-DIGI service, DIGI offered customers a latency of 1 millisecond – a huge improvement compared to other Spanish service providers' offerings. To ease customer transition to the AX7501 hardware, DIGI's technicians are providing one-on-one support to configure the device and answer questions whenever necessary.

"We are always focused on offering the best possible solution and services to our customers, making technology accessible to everyone. With this in mind, our aim was to become the first 10 Gbps service provider in Spain. This required us to look for powerful, reliable, and advanced technology equipment like Zyxel, that excels our customers' expectations to obtain a superior quality fiber connection for working remotely, gaming or streaming entertainment." said Ismael Serrano Casero, Chief Technology Officer of DIGI Spain.

"At Zyxel, it is our mission to keep service providers ahead of the competition. We're proud to assist DIGI in becoming the first 10G service provider in Spain, providing connectivity that is unmatched." said James Harris, VP & Head of Zyxel communication EMEA.

Main challenges

DIGI needed a trusted, experienced partner that could provide powerful, reliable XGS-PON solutions to accommodate increasing bandwidth demands from its residential subscribers.

Zyxel solutions

The BBF.247 XGS-PON certified Zyxel AX7501 supports the latest dual-band WiFi 6 (11ax) technology and comes with an SFP+ cage to support both XGS-PON and 10G active fiber for ultra-fast triple-play service.

Core benefits

- Optimizes bandwidth utilization to allow more subscribers to enjoy superior connectivity with extremely low latency.
- Allows remote network management, configuration, monitoring, and diagnosis without interfering with end-users and saving overall operating time.
- Provides prompt, customized technical support for each unique use occasion.

Featured products



AX7501

Dual-Band Wireless AX6000 10G PON IAD with SFP+

- Integrated internet services via 10G fiber
- WiFi 6 (11ax) for superior performance and coverage
- SFP+ supports both passive and active fiber
- Zyxel MPro Mesh® Solutions (compliant with EasyMesh standards)
- Zyxel Execution Environment (ZyEE) for Linux Containers
- Remote management via TR-069 and OMCI
- Zyxel-developed OPAL for superior flexibility and faster time-to-market

For more product information, visit us on the web at <https://service-provider.zyxel.com>

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