

Solution Brief



Broadband Access Solutions
for Network Service Providers





DZS-KEYMILE broadband solutions support all FTTx network deployment architectures perfectly and therefore gives you maximum freedom of choice in building your network. DZS-KEYMILE is a pioneer in the Fiber to the Home/Business industry offering an extensive collection of optical line termination platforms, ONTs, and multi-service access solution offerings.

Our FTTx broadband access platforms provide cost-effective and high-performance solutions for operators of all sizes, from low cost entry point systems to large-scale multi-service platforms; and the ability to scale and evolve with market demand and business cases requirements.

Whether you are deploying GPON or point-to-point architectures; are street cabinet or building based; and utilising Openreach's PIA infrastructure or undertaking your own fibre digging, DZS-KEYMILE has a solution that will fit your requirements.



V5808 and V5816 1U GPON OLTs

For example, the V5808 pictured above provides 8 ports of GPON from a 1U chassis that can be AC or DC powered and is suitable for both street cabinet and indoor deployments.

This fully featured and highly reliable OLT unit is used by large and small operators alike to provide a cost-effective entry point for initial network deployments. A 16-port version is also available, which supports up to 512 end users (1:32 split ratio). As capacity requirements grow, additional units can be cascaded to support many thousands of customers.

For larger scale deployments, or where multiple access technologies may be required (XGS-PON, point-to-point, etc.) DZS-KEYMILE offer a range of OLT chassis options.

Our highest capacity chassis is the MXK-F1419 as pictured above. This 19" rack mount solution can support over 7,000 end users with GPON, but can also provide XGS-PON connections, and both 1G and 10G point-to-point ports – a truly multi-service FTTx platform.

Other platforms are available, from 1U point-to-point switches for copper or fibre connections, up to multi-service chassis solutions such as the MileGate product family supporting up to 480 point-to-point connections as well as legacy copper xDSL services.



MXK-F1419 Chassis Based OLT

Wholesale or Retail ISP ONTs

DZS-KEYMILE has one of the broadest range of ONTs in the industry with extensive ranges of indoor and outdoor units, covering both consumer and business customer feature requirements.

We understand that operators need robust and reliable network termination devices that align to their individual service and feature requirements, and DZS-KEYMILE has models to cost-effectively address these specific needs.

For wholesale operators, we offer a simple managed demarcation unit that terminates the GPON fibre connection and provides a single GbE LAN port to link to separate retail or business ISP customer premises equipment (CPE).



ZNID-2301 ONT

Wholesale operators may also want to support voice services, either as a managed service or as a simple VLAN connection through their network. In this scenario, DZS-KEYMILE would propose the ZNID-2424 ONT (pictured below) which can function as a managed demarcation unit as per the ZNID-2301, but which also supports 2 x FXS ports with integrated SIP voice clients.

For retail ISPs – where the ONT should also provide the residential gateway functions such as Wi-Fi, firewall etc. the related ZNID-2428 ONT version provides this additional functionality. Both ZNID-2424 and ZNID-2428 ONTs are also available as point-to-point versions, supporting GbE uplinks.



ZNID-2424
ZNID-2428 ONTs

4 x GbE LAN, 2 x FXS
+ Wi-Fi (2428 version)

DZS-KEYMILE has many other ONT versions available, with additional features such as PoE, RF video, and TDM interfaces.

XGS-PON

XGS-PON (G.9807) is the latest PON standard that provides 10 Gbit/s data rates in both upstream and downstream directions. Whilst current equipment maturity and price points mean that network deployments are limited, there is clearly a trend in this direction – initially for business but in future for consumers too as the demand for higher split ratios and/or higher data-rates grow. DZS-KEYMILE can assist operators in this technology evolution – whether this is a day one requirement, or something an operator wants to monitor and perhaps trial in the near future. The MXK-F1419 chassis introduced earlier already supports XGS-PON via a dedicated line card, as do other chassis version in the DZS-KEYMILE portfolio. Coupled with this OLT, we have a range of ONT options either in production or being released this year.



Freedom of Choice™ Interoperability

DZS-KEYMILE understands that many operators have existing networks deployed with equipment from other vendors. Introducing a new vendor – either for all new deployments or as part of a dual-vendor strategy – inevitably means interoperability challenges between those different vendors' equipment. DZS-KEYMILE does not restrict our equipment from operating with other vendors and has experience in supporting our customers in multi vendor interoperability testing where scale allows. Our V58xx OLTs and ZNID ONTs will interwork with other vendors (standards based) equipment "out of the box". DZS-KEYMILE is open to further discussions around additional testing, certifications and support services, on a case by case basis.

Access Solutions

DZS-KEYMILE provide many other access solutions for new and legacy networks, over copper or fibre.

For example, we have a range of G.fast platforms for FTTB deployments for high speed broadband delivery over legacy in-building copper. Please contact us for details of these, and any other access requirements you may have.

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DASAN Zhone Solutions, Inc. (NASDAQ: DZSI) is a global provider of ultra-broadband network access solutions and communications platforms deployed by advanced Tier 1, 2 and 3 service providers and enterprise customers. DZS' solutions are deployed by over 900 customers in more than 80 countries worldwide. DZS's UK office, technical facility and training centre is located in Hertford.

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