



Genexis FiberTwist

XGS2000-Series (XGS-PON)

Compact network demarcation



Where GPON is starting to hit bandwidth limitations, XGS-PON provides a solution. The well-known FiberTwist now offers an easy Do It Yourself (DIY) upgrade path from GPON to XGS-PON: increasing the end-user's bandwidth with a single twist.

With the FiberTwist product range, Genexis introduces a unique broadband connectivity solution that redefines size, ease of installation and flexibility for the distribution of fiber bandwidth throughout the entire home.

Key features

- Compact, fully managed XGS-PON network demarcation
- A flexible solution matching both single-dwelling and multi-dwelling deployment scenarios
- Patented FiberTwist twist-on interface on FTU or Bracket, enabling 100% fool-proof, DIY, end-user installation
- Optional integrated CATV receiver on request
- 1x 10GE and 2x GE LAN port(s) to connect external devices, such as a Residential Gateway
- Interoperable with the major OLT brands in triple-play configurations
- LED Dimming

A perfect fit for every deployment scenario

The FiberTwist product family has been developed in such a way that it can be integrated into various deployment models, including single-dwelling and multi-dwelling scenarios.

Using products from the FiberTwist FTU family, the demarcation point can be extended to any desired location in the home, enabling easy access and installation of services.

Its small size (110 x 110 x 46 mm) makes the FiberTwist a perfect fit in any environment, be it a living room, metering cabinet or basement.



Product features and specifications

Genexis FiberTwist XGS2000-Series (XGS-PON)

Environment

Dimensions (H x W x D)	110x110x46 mm
Operating temperature	0 - 40 °C
Operating humidity (non-condensing)	5% ~ 95%
Storage temperature	-25 - 55 °C
Storage humidity (non-condensing)	10% ~ 100%
ITU-T K.21 (surge protection)	

WAN interface

- 1x XGS-PON interface
- Compliant with ITU-T G.9807.1-2
- Compliant with ITU-T G.988
- Compliant with BBF TR-156 issue 4
- Compliant with BBF TR-247

SC/APC connector

N1 optics

- TX (upstream) power +4 ... +9 dBm
- RX (downstream) power -9 ... -28 dBm
- TX wavelength 1260 ... 1280 nm
- RX wavelength 1575 ... 1580 nm

TRx allows co-existence with GPON, NG-PON2 and CATV

Interoperable with the major OLT brands in triple-play configurations

Support up to 256 GEM ports (XGS-PON Encapsulation Method)

40 T-CONT (Transmission Containers)

Dying gasp

LAN interface(s)

- 10GE: Compliant with 100/1000/2.5G/5G/10G BASE-T
- GE: Compliant with 10/100/1000BASE-T
- Led indicators for speed and activity

User interfaces

- 1 x Unlock button
- 1 x LED dimming button
- 1x 10GE and 2x GE LAN interfaces
- 1 x Power connector
- 1 x Power button
- 1 x Reset button



Interoperable OLTs

Genexis has been an independent PON OLT vendor since 2013. All Genexis ONTs are interoperable and have been field deployed with major OLT brands active in the European and North American markets. Genexis will provide its full support to enable a successful interop. Please ask your sales representative for more information.

Emissions and safety regulations

- CE approved, FCC on request
- Safety:
 - IEC EN 60950 or IEC EN 62368-1
- Laser safety:
 - IEC EN 60825-1: Class 1 laser
- Emissions & Immunity:
 - EN 55032/CISPR 32:2008, Class B
 - EN 55024
- RoHS/WEEE marking:
 - Compliant with 2011/65/EU

Status LEDs

- Power 
- Fiber uplink status 
- 2x per LAN/RJ-45



FiberTwist XGS2000-Series (XGS-PON) product models

Model	Type	10GE LAN	GE LAN	CATV
FiberTwist-XGS2310	Layer-2 XGS-PON ONT	1x	2x	-

The Genexis FiberTwist XGS2000-Series supports the coexistence with CATV, GPON and NG-PON2 standards

Note: Not every listed feature may be included in the shipping product. We reserve the right to make changes of technical specifications, housing or design without prior notice.