

FiberTwist G-Series (GPON)

Compact network demarcation



Providing Gigabit fiber connectivity to any desired location in the home is one of today's major challenges. With the endless variety of different deployment scenarios and end-user requirements, this calls for a flexible and scalable in-home connectivity solution.

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

Features

- » Compact, fully managed GPON network demarcation
- » A flexible solution matching both single-dwelling and multi-dwelling deployment scenarios
- » Patented FiberTwist click-on interface on FTU or baseplate, enabling 100% fool-proof end-user installation
- » Optional integrated CATV receiver
- » Gigabit LAN port(s) to connect external devices, such as a Residential Gateway

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

FiberTwist G-Series (GPON)

General specifications

- » Dimensions (H x W x D) 110x110x46 mm
- » Weight 350 g
- » Power supply voltage 12 Vdc ± 5%
- » Power consumption with CATV typ. 2 W
typ. 5.2 W
- » Operating conditions 0 - 40 °C
- » Storage conditions 0 - 70 °C

User interfaces

- 1 x Unlock button
- 1 x or 4 x LAN interface
- 1 x Power connector
- 1 x LED dim button
- 1 x CATV output coaxial F-female (optional)

Interoperable OLTs *

Including but not limited to:

- » Huawei MA5600
- » Huawei MA5608T
- » Keymile MileGate 2200
- » Keymile MileGate 2310
- » Keymile MileGate 2510
- » Dasan V5824G
- » ZTE ZXN10 C300
- » Zyxel OLT 2406
- » Saturn OLT
- » Atlas OLT
- » Calix E7

LAN interface(s)

- » Compliant with IEEE 802.3 Clause 40 (1000/100/10BASE-T)
- » LED indicators for link and activity

WAN interface

- » 1x GPON interface
 - Compliant ITU-T G.984.1/2/3/5
 - Compliant ITU-T G.988
- » SC/APC connector
- » Class B+ optics
 - TX (upstream) power +0.5 ... +5 dBm
 - RX (downstream) power -8 ... -28 dBm
 - TX wavelength 1310 nm
 - RX wavelength 1490 nm
- » Interoperable with major OLT brands in triple-play configurations
- » 128 GEM ports
- » 32 T-CONT






CATV

- » Optical wavelength 1550 - 1560 nm
- » Optical input range -8 ... 0 dBm
- » RF output F connector 75 Ω
- » RF frequency range 47 - 890 MHz
- » CNR 47 dB
- » CSO, CTB <-55 dBc
- » RF output level (AGC) 80 dBμV (nominal)
- » Filtered from WAN interface via internal WDM filter
- » Remote management via OMCI
- » Up to two optional low-pass RF filters (remotely manageable) *

Emission and safety regulations

- » CE approved, FCC on request
- » Safety:
 - IEC 60950
 - UL94HB flammability class
- » Laser safety:
 - IEC EN 60825 class 1
 - FDA 21 CFR 1040.10/.11 Class 1
- » Emission & Immunity:
 - EN 55022/CISPR 22:2008, Class B
 - EN 55024
 - EN 61000
- » RoHS/WEEE marking:
 - Compliant with 2002/95/EC

Status LEDs

-  Power
-  Fiber uplink status
-  Alarm **
-  LAN ***
-  CATV status

* Depends on HW and FW configuration of the OLT

** Applicable to selected model(s) only

*** At the front or at the LAN ports

FiberTwist G-Series (GPON) product models

Model	Type	LAN interface	CATV	Remark
FiberTwist-G2110	Layer-2 ONT	1x	-	
FiberTwist-G2120	Layer-2 ONT	1x	yes	
FiberTwist-G2172	Layer-2 ONT	1x	yes	CATV filter for Danish market
FiberTwist-G2410	Layer-2 ONT	4x	-	Available Q4/2018
FiberTwist-G2420	Layer-2 ONT	4x	yes	Available Q4/2018