



InterOS-NG

DEPENDENT INTEROP



Genexis FiberTwist

G2000-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 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 GPON network demarcation
- A flexible solution matching both single-dwelling and multidwelling deployment scenarios
- Patented FiberTwist twist-on interface on FTU or Bracket, enabling 100% fool-proof, DIY, end-user installation
- \cdot Optional integrated CATV receiver
- With a 2.5 gigabit LAN port or up to 4x gigabit LAN port(s) to connect external devices, such as a Residential Gateway
- Interoperable with the major OLT brands in triple-play configurations

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 \times 110 \times 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 G2000-Series (GPON)

| General specifications | |
|--------------------------------------|---------------|
| Dimensions ($H \times W \times D$) | 110x110x46 mm |
| Weight (G2110) | 132 g |
| Weight (G2410) | 176 g |
| Weight (G2420) | 225 g |
| Power supply voltage | 12 Vdc ± 5% |
| Operating temperature | 0 - 40 °C |
| Storage temperature | o - 70 °C |

Power consumption (EU-CoC-BBE)

| G2110C | 2.6 W Idle Mode |
|---------------|-----------------|
| | 2.6 W On Mode |
| G2110C-2.5G | 2.9 W Idle Mode |
| | 2.9 W On Mode |
| G2120B | 3.1 W Idle Mode |
| | 5.2 W On Mode |
| G2410 | 3.0 W Idle Mode |
| | 4.2 W On Mode |
| G2420 & G2472 | 5.3 W Idle Mode |
| | 6.5 W On Mode |

User interfaces

1 x Unlock button
1 x LED dimming button
1x or 4x LAN interface
1 x Power connector
1 x CATV output coaxial F-female *

LAN interface(s)

| Compliant with IEEE 802.3 (1000/100/10BASE-T)* |
|---|
| Compliant with IEEE 802.3 (2500/1000/100Base-T)* |
| LED indicators for link and activity |

WAN interface

1x GPON interface

- · Compliant with ITU-T G.984.1/2/3/5
- · Compliant with 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
- · RX wavelength 1490 nm

TRx allows co-existence with, CATV, XGS-PON, XG-PON and NG-PON2*

Interoperable with the major OLT brands in triple-play configurations

128 GEM ports (GPON Encapsulation Method)32 T-CONT (Transmission Containers)

CATV*

| Wavelength (typical) | 1550 nm | | |
|--|------------------------------|--|--|
| Optical return loss | min 45 dB | | |
| RF passband | 45-900 MHz | | |
| RF output impedance | 75 Ω | | |
| F-Connector length | 11 mm | | |
| AGC optical input power | -9 o dBm | | |
| RF output level (AGC on) according to CENELEC-42 | 80 ± 2.5 dBμV 4% OMI / ch | | |
| RF flatness | max 2 dB | | |
| Output return loss | max -10 dB | | |
| Slope / tilt | 1 4 dB | | |
| CNR min | 47 dB@-8 dBm | | |
| CSO / CTB | max -57 dBc | | |
| Spurious to carrier | max -57 dBc | | |
| MER QAM-64 | > 34 | | |
| MER QAM-256 | > 36 | | |

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

1310 nm

RoHS/WEEE marking:

Compliant with 2011/65/EU
 Surge protection*

· Compliant with ITU-T K.21 basic level

Interoperable OLTs

Genexis has been an independent PON ONT 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.

Status LEDs

| Power | பு |
|---------------------|-----|
| Fiber uplink status | <> |
| Alarm* | -!- |
| LAN* | 용 |
| CATV status* | 0 |

FiberTwist G2000-Series (GPON) product models

| Model | Туре | 1GE LAN | 2.5GE LAN | CATV | Remark | |
|------------------------|------------------|---------|-----------|------|--------------------------|--|
| FiberTwist G2110C | Layer-2 GPON ONT | 1x | - | - | - | |
| FiberTwist G2110C-2.5G | Layer-2 GPON ONT | - | 1x | - | - | |
| FiberTwist G2120B | Layer-2 GPON ONT | 1x | - | Yes | - | |
| FiberTwist G2410 | Layer-2 GPON ONT | 4x | - | - | - | |
| FiberTwist G2420 | Layer-2 GPON ONT | 4x | - | Yes | - | |
| FiberTwist G2472 | Layer-2 GPON ONT | 4x | - | Yes | CATV filters for Denmark | |

Remote enabling of CATV

Remote management via OMCI

All models have wavelength blockers.

 $The \ Genexis \ Fiber Twist \ G2000-Series \ supports \ the \ coexistence \ with, \ CATV, \ XGS-PON, \ XG-PON, \ and \ NG-PON2 \ standards^*$

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.

^{*} Applicable to selected model(s) only