

FiberTwist

Compact network demarcation
Point-to-Point series



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 through the home.

Features

- » Compact, fully managed Point-to-Point network demarcation, based on a single-fiber design
- » A flexible solution matching both single-dwelling and multi-dwelling deployment scenarios
- » Patented FiberTwist click-on interface on the FTU, enabling 100% fool-proof end-user installation
- » Optional integrated CATV receiver
- » Up to 4 Gigabit LAN ports to connect external devices, such as a Residential Gateway and various Layer 2 services
- » LED dimming
- » Wall junction box compatible

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 & specifications

FiberTwist

General specifications

- » Dimensions (H x W x D) 110x110x46 mm
- » Weight 350 g
- » Power supply voltage 12 Vdc ± 5%
- » Power consumption with CATV max. 5.1W
max. 6.5W
- » Feeder fiber diameter 7 mm
- » Max. gasblocker size 25 x ø15 mm
- » Operating conditions 0 - 40 °C
- » Storage conditions 0 - 70 °C

User interfaces

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

CATV

- » RF output F connector 75Ω
- » Output return loss 14dB
- » RF output level (AGC) 86 ± 2 dBμV
- » Frequency range 47 - 875 MHz
- » Remote enabling of CATV
- » Remote monitoring of CATV input signal
- » Remote monitoring of (calculated) RF output

WAN interface

- » Compliant with 1000BASE-BX10-U
- » Compliant with 100BASE-BX10-U
- » Single mode fiber (ITU-T G.657)
- » SC/APC connector
- » 10 km range

Layer 2 features

- » Managed Quality of Service
- » Remote port enabling/disabling
- » Remote per-port rate shaping and limiting
- » Up to 64 VLANs
- » Q-in-Q
- » Link state forwarding
- » Flow control setting

LAN interface(s)

- » Up to 4 1000/100/10Base-T RJ45 Interfaces
- » LED indicators for link and activity

Emission and safety regulations

- » CE, FCC approved
- » Safety:
 - IEC EN 60950
 - IEC EN 60825-1:2001-08
- » Laser safety
 - IEC EN 60825-1: Class 1 laser product
- » Emission: EN 55022, Class B
- » Immunity: EN 55024
- » RoHS/WEEE marking: Compliant with 2002/95/EC

Management



Network Terminator

- » TR-069
- » GAPS (7.0 and higher)
- » CLI
- » DHCP/TFTP
- » IEEE 802.3ah OAM in passive mode:
 - Discovery
 - Loopback
 - Fault notification (dying gasp)

Media Converter

- » IEEE 802.3ah OAM in passive mode:
 - Discovery
 - Loopback

Status LEDs

-  Power
-  Fiber uplink status
-  CATV status

* Only applicable to Network Terminator models

FiberTwist product models

Model	Type	WAN (Mbps)	LAN interfaces	CATV
FiberTwist-P2110	Media converter	1000/100	1x	-
FiberTwist-P2410	Network terminator	1000/100	4x	-
FiberTwist-P2420	Network terminator	1000/100	4x	yes