

## FiberTwist F-Series (OpticalData)

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 through the home.

### Features

- » Compact, based on a single-fiber design
- » 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
- » One optical data port to connect external devices such as a Residential Gateway and various Layer 2 services on the LAN side
- » Status LED on/off switching
- » 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.

# FiberTwist - F-Series (Optical Data)

## Features & Specifications

### General specifications

» Dimensions (H x W x D)	110x110x46 mm
» Weight	160 g
» Operating temperature	0 - 40 °C
» Storage temperature	0 - 70 °C
» Wavelengths:	
» Input	1310/1490/1550 /1590/1610 nm
» Output (F2020) CATV	1310-1610 nm
» Output (F2110)	1310/1490/1550 /1590/1610 nm
» Output (F2120) Data	1310/1490 nm 1590/1610 nm
CATV	1550 nm

### User interfaces

1 x	Unlock button
1 x	LED switching button *
1 x	Power connector *
1 x	CATV output coaxial F-female *

### WAN interface

- » Compliant with 1000BASE-BX20-U
- » Compliant with 100BASE-BX20-U
- » Single mode fiber (ITU-T G.657)
- » SC/APC connector (F2110)
- » SC/PC connector (F2120)

### CATV \*

#### Power

- » Power supply voltage 12 Vdc ± 5%
- » Power consumption 0.85 W typ

#### General

- » Optical input range -10 ... 0 dBm
- » RF output F connector 75 Ω
- » Output return loss 12 dB
- » RF output level (AGC) 81 ± 1 dBμV
- » RF Frequency range 45 - 1000 MHz
- » CNR min 44 dB @ -8 dBm
- » CSO / CTB max -55 dBc

### Emission and safety regulations

- » CE approved, FCC on request
- » Safety:
  - IEC EN 60950
  - IEC EN 60825-1:2001-08
- » Laser safety:
  - IEC EN 60825-1: Class 1 laser product
- » Emissions & Immunity:
  - EN 55022/CISPR 22:2008, Class B
  - EN 55024
- » RoHS/WEEE marking:
  - Compliant with 2002/95/EC

### Status LEDs \*

-  Power
-  CATV status

\* Applicable to selected models only

## FiberTwist F-Series (Optical Data) product models

Model	Type	Fiber Interface	CATV
FiberTwist-F2020	RF-Overlay only	-	Yes
FiberTwist-F2110	Fiber Port	SC/APC green	-
FiberTwist-F2120	Data Port + RF Overlay	SC/PC blue	yes