

Genexis FiberTwist

F-Series (Optical Data)

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.

Key features

- Compact, passive network demarcation
- A flexible solution matching both single-dwelling and multi-dwelling deployment scenarios
- Patented FiberTwist click-on interface on FTU or Bracket, enabling 100% fool-proof, DIY, 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

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 through the home.

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

Genesis FiberTwist F-series (Optical Data)

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

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

User interfaces

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

Emissions and safety regulations

CE approved, FCC on request
 Safety:
 · IEC EN 60950
 Emissions & Immunity:
 · EN 55032/CISPR 32:2008, Class B
 · EN 55024
 RoHS/WEEE marking:
 · Compliant with 2011/65/EU

Status LEDs

Power
 CATV status



* Applicable to selected models only

Genesis FiberTwist F-Series (Optical Data) product models

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

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.